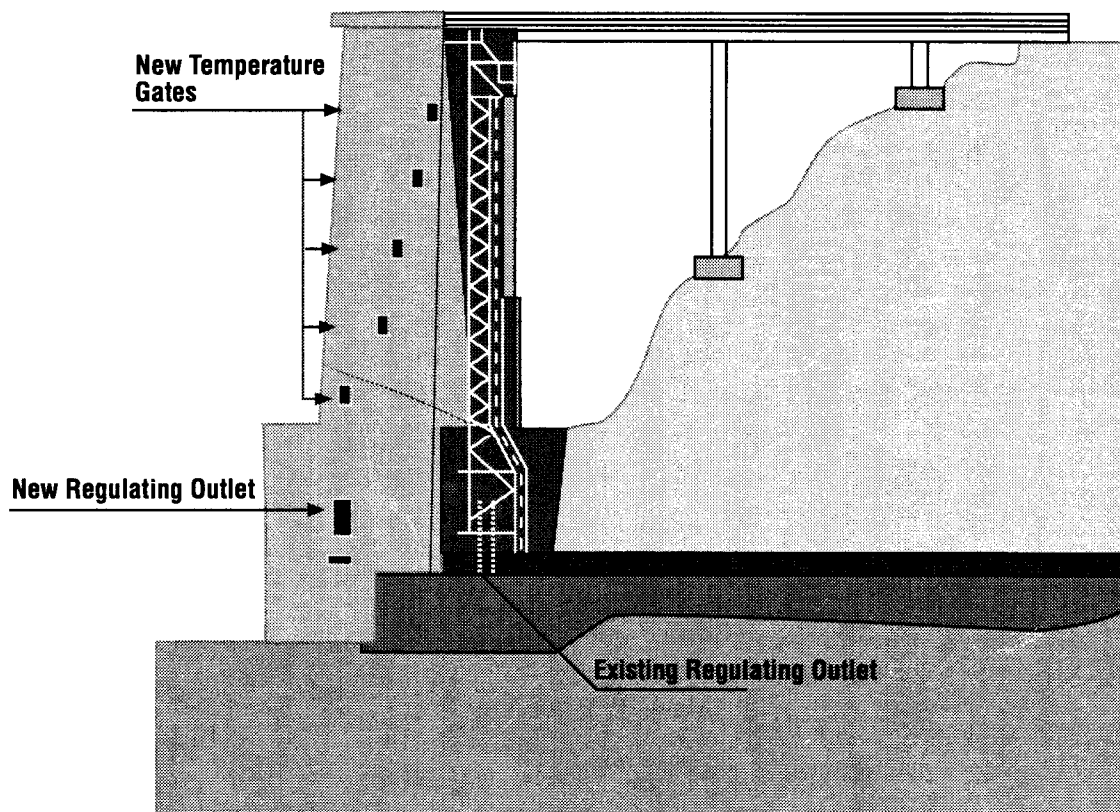




**US Army Corps
of Engineers**
Portland District

Project Management Plan

Willamette River Temperature Control McKenzie Subbasin, Oregon



Schematic of Multi-Level Intake Structure Proposed

Prepared by
Portland District
US Army Corps of Engineers
April 1995

WILLAMETTE TEMPERATURE CONTROL
McKENZIE SUBBASIN, OREGON
PROJECT MANAGEMENT PLAN

Presented by the Project Manager

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WILLAMETTE TEMPERATURE CONTROL
McKENZIE SUBBASIN, OREGON
PROJECT MANAGEMENT PLAN

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE</u>
1. Scope of Work	3
2. Work Breakdown Structure	5
3. Organizational Breakdown Structure	5
4. Responsibility Assignment Matrix	7
5. Schedules	7
6. Budgets and Cost Estimates	8
7. Current Benefits Plan	8
8. Resource Allocation Plan	9
9. Local Cooperation Plan	9
10. Acquisition Plan	16
11. Real Estate Plan	16
12. Total Quality Management Plan	16
13. Value Engineering Plan	18
14. Safety Plan	18
15. Security Plan (Not Applicable)	18
16. Cultural Resource Plan	19
17. Environmental Plan	19
18. Operation and Maintenance Plan	20
19. Management Control Plan	20
20. Reporting Requirements	21
21. Change Control Plan	22
 Figures	
Figure 1 Work Breakdown Structure	6
Figure 2 Responsibility Assignment Matrix	9
Figure 3 Project Schedule	10
Figure 4 Network Diagram	12
Figure 5 Resource Allocation Plan	17
 Tables	
Table 1 Organizational Breakdown Structure	7
Table 2 Cost Estimate Summary	13
Table 3 Cougar Cost Estimate Summary	14
Table 4 Blue River Cost Estimate Summary	15
 Appendices	
Appendix A Detailed Work Scopes	
Appendix B Product Schedules	

WILLAMETTE TEMPERATURE CONTROL
McKENZIE SUBBASIN, OREGON
PROJECT MANAGEMENT PLAN

1. Scope of Work.

a. Background. The Willamette River Basin is located in northwestern Oregon. During the last 40 years, 13 Corps reservoirs have been constructed in the basin to control floods, generate power, and provide water for navigation and irrigation. Secondary water use provides benefits for improving water quality, recreation, and fish and wildlife. State and Federal resource agencies and the Northwest Power Planning Council have been seeking modification of water temperatures downstream from two reservoirs, Blue River and Cougar Lakes, to restore pre-project temperatures for anadromous and resident fish under present flow conditions in the McKenzie River subbasin.

The McKenzie River is a tributary to the Willamette at RM 171.8 near Eugene, Oregon. The Blue River project was completed in 1969 and is located on Blue River at RM 1.7, which is a tributary to the McKenzie at RM 57. The Cougar project was completed in 1963 and is located on the South Fork McKenzie River at RM 4.5, which is a tributary to the McKenzie at RM 60. Hatchery mitigation was provided for the loss of habitat upstream from these projects. However, the projects have impacted downstream temperature regimes. Temperatures in the spring and summer are cooler than pre-project temperatures, while fall and winter temperatures are warmer than pre-project temperatures. Cooler late spring and summer temperatures impact the upstream migration of native spring chinook salmon and the growth of native trout, including bull trout. Warmer fall and winter temperatures impact the emergence timing and survival of juvenile chinook salmon.

b. Project Scope. The purpose of the project is to provide facilities that allow for selective withdrawal of water from various levels in the reservoirs, during periods of thermal stratification, to more closely meet pre-project temperatures below the reservoirs. The temperature control project will modify the existing intake towers by adding a new wetwell with discreet throttled ports at Blue River and Cougar projects.

Major design activities for each project include a design memorandum, a value engineering study, and plans and specifications for one construction contract at each project. Construction activities include actions to divert water and maintain flood control throughout the construction period. The construction contractor at each project will be offered the opportunity to enter into a partnering agreement with the Corps. This has proved successful in limiting cost growth and litigation on other projects in Portland District. A monitoring and evaluation program, similar in nature to what occurred on the Rogue River, is planned after construction to optimize operation of the system and resulting benefits.

c. Specific Work Requirements.

(1) Flood control will be maintained during the construction period. This will limit the construction season to approximately May through November. The actual time available for construction will be dependent upon rainfall during the period. During the draw down period for construction, the contractor may be required to suspend operations if unusually high rainfall occurs.

The project will basically be operated as run-of-river, except during flood control periods. A residual pool will be maintained throughout the summer construction season to essentially eliminate downstream sediment transfer and reduce the turbidity of the water released from the pool.

(2) Due to requirements for diversion and care of water during construction, power production at Cougar during construction is not anticipated. No impact on Eugene Water and Electric Board's (EWEB) potential power production at Blue River has been included. EWEB was issued a FERC license for a hydropower plant at Blue River in 1989. EWEB design activities have been reviewed by the Corps to ensure that there will be no impact on temperature control construction at Blue River. The EWEB hydropower project is currently on hold due to unfavorable economic conditions.

(3) The diversion at Cougar will handle up to 2,000 cfs during construction. The diversion will be continuously operated throughout the construction period to eliminate the transfer of suspended sediments downstream and reduce turbidity of release water. Flows above 2,000 cfs will require use of the existing regulating outlet during flood control operations.

(4) Diving will be required during design memorandum and initial construction activities at Cougar to further refine water diversion requirements and to construct the diversion structure. Corps regulations for diving will be followed.

(5) Construction of the two projects will be phased to limit downstream impacts during the construction period (ie., flows, turbidity). Cougar will be constructed first, followed by Blue River. The fishery resource agencies prefer installation at Cougar first because modifying water temperatures in the South Fork would restore more habitat than that available in Blue River.

(6) U.S. Forest Service (USFS) administers lands outside of the immediate dam area. Their recreation facilities and all highways will remain open during construction. Appropriate safety precautions will be undertaken during construction as discussed in Paragraph 14. A Memorandum of Understanding will be developed with USFS for each project during plans and specifications preparation to specifically outline the responsibilities of each agency during construction.

(7) The intake to the diversion tunnel at Cougar will be screened to retain bull trout in the residual pool habitat during construction. The resource agencies prefer to keep bull trout in the reservoir, rather than allow them to move downstream with the potential for injury through the control structure in the diversion tunnel. Coordination with the Oregon Department of Fish and Wildlife (ODFW) and U.S. Fish and Wildlife Service (USFWS) due to potential bull trout listing under the Endangered Species Act and with USFS due to Wild and Scenic Rivers Act requirements will be required throughout the project.

d. Key Assumptions. Key assumptions made for planning purposes in development of the estimated cost and schedule are as follows:

(1) The diversion tunnel used during original construction at Cougar will be used to divert water during construction of temperature control facilities. We have assumed a level of sediment and debris has deposited since construction, and that the bulkhead which sealed the diversion tunnel can

be removed. These items will be evaluated further in FDM level studies. An appropriate level of contingency has been applied in the construction estimate to cover these uncertainties.

(2) The quantity, size and composition of sediment that will be released downstream during construction is not precisely known. Experience with other projects in similar conditions shows that this is dependent upon a number of factors, which are difficult to quantify. It is likely that there will be a period during initial draw down at each project where water with high levels of turbidity will be released downstream. Subsequent construction seasons will likely produce less suspended sediment. Potential operational changes required during construction to limit turbidity could affect the schedule.

(3) It is assumed that there are no hazardous materials in the sediments around the intake towers or diversion structures. This would allow for disposal of the material in the pool area, although other disposal options will be considered in the design phase. Previous reports (1983) on the Willamette system have indicated that Blue River and Cougar do not have water quality problems due to naturally occurring minerals. Also, based upon previous investigations, mining operations upstream of Blue River have not impacted sediments in the area of construction. Additional testing of sediments will be conducted in the FDM phase to verify this assumption.

(4) Based on studies in the feasibility phase, it is unlikely that hazardous materials will be discovered in any of the contractor work areas. No schedule or cost impacts have been assumed.

(5) Minimum flows on the Willamette River will be met to the extent possible during construction. Water diversion requirements result in minimal storage capability at the projects during construction. Project outflows will equal inflows, which cannot be predicted. Modeling based upon historic flows demonstrates that, during an average year, minimum outflows from Blue River and Cougar will not be met at various times from July through September. It is assumed that reservoir regulation at the other projects in the Willamette Basin will allow the Corps to meet minimum downstream flow requirements at Albany and Salem. There have been exceptions during drought or low flow conditions on our requirement to meet these minimum flows in the past. The Corps will coordinate with appropriate agencies during construction to determine appropriate releases from other Willamette reservoirs.

(6) As discussed in the work requirements section above, the construction season is estimated to run from May through November based upon average rainfall expected in the area. This results in about a four year construction period at each project for installation of selective withdrawal structures as identified in the feasibility study. Higher or lower than normal rainfall during construction may extend or shorten the four year schedule. We will focus on ways to shorten the construction schedule through the value engineering studies and normal design process as discussed later.

2. Work Breakdown Structure (WBS). The WBS for the project is shown on Figure 1. The first level of the WBS is defined as the project. The WBS addresses all deliverables and end products necessary to complete construction at both projects. A detailed scope of work is provided in Appendix A for each of the products in bold on Figure 1.

3. Organizational Breakdown Structure (OBS). The OBS (Table 1) identifies the various organizations having authority to perform work specified in the WBS, consistent with responsibilities listed in paragraph 4.

FIGURE 1 WORK BREAKDOWN STRUCTURE

Willamette Temperature Control Project (WTC)

Blue River (WTCB)

VE Studies (WTCBX)

- VE Study
- VE Proposals
- VE Change Proposals (Contractor)

Feature Design Memorandum (WTCBU)

- Engineering Analysis/Report
- Real Estate Analysis/MOU
- HTRW Studies
- Cultural Resource Studies
- Cost Estimates
- Management Documents/AE Contracts

Plans and Specifications (P & S) (WTCBW)

- Plans & Specs
- Cost Estimates
- Contract Award Documents/Activities

Engineering During Construction (WTCBWJ)

Supervision & Administration (WTCBWK)

- Project Office Documents
- Area Office Documents
- District Office Documents

Contractor Earnings (WTCBWL)

Programs and Project Management Documents (WTCBZ)

Partnering (WTCBWN)

Cougar (WTCC)

VE Studies (WTCCX)

- VE Study
- VE Proposals
- VE Change Proposals (Contractor)

Feature Design Memorandum (WTCCU)

- Engineering Analysis/Report
- Real Estate Analysis/MOU
- HTRW Studies
- Cultural Resource Studies
- Cost Estimates
- Management Documents/AE Contracts

Plans and Specifications (P & S) (WTCCW)

- Plans & Specs
- Cost Estimates
- Contract Award Documents/Activities

Engineering During Construction (WTCCWJ)

Supervision & Administration (WTCCWK)

- Project Office Documents
- Area Office Documents
- District Office Documents

Contractor Earnings (WTCCWL)

Programs and Project Management Documents (WTCCZ)

Partnering (WTCCWN)

TABLE 1
Organizational Breakdown Structure

<u>Resource Name</u>	<u>Resource Code</u>
Project Manager	PM
Design Branch	PE-D
Structural Design	PE-DS
Civil Design	PE-DC
Electrical Design	PE-DE
Mechanical Design	PE-DM
Geotechnical Branch	PE-G
Cost Engineering Branch	PE-C
Hydraulics & Hydrology Branch	PE-H
Hydraulic Design	PE-HD
Reservoir Regulation	PE-HR
Hydrology	PE-HY
Economics	PE-PE
Environmental Planning Team	PE-E
Fish & Wildlife	PE-E
Cultural Resources	PE-E
Technical Branch	PE-T
Real Estate	RE
Value Engineering	VE
Construction Services Branch	CO-S
Portland Resident Office	CO-FP
Contracting Division	CT
Operations (including Willamette Valley Project)	OP-V
Fishery Resource Agencies (ODFW, NMFS, USFWS)	AGEN
U.S. Forest Service	USFS
Other Corps/AE	AE

4. Responsibility Assignment Matrix (RAM). The RAM is provided on Figure 2, and outlines the organization assigned responsibility for each product in the WBS. It also displays the various offices that are assigned to work on each product based upon the detailed work scopes provided in Appendix A.

5. Schedules. The project schedule is provided on Figure 3. Detailed schedules for the construction contracts are provided in Appendix B. As discussed above, construction of the multilevel intake structures at the two projects has been phased to limit the impacts on the downstream watershed during construction. Cougar will be constructed first, followed by Blue River. There is a three year Preconstruction Engineering and Design (PED) schedule beginning in FY 1995. Design activities on Blue River will begin in FY 1999. Construction at Cougar will begin in the Spring of 1998, and will

last for about four years. Construction at Blue River will follow in 2002, with a duration of about four years. Congressional authorization is scheduled to occur in WRDA 1996.

The network diagram showing logical relationships between the various activities is provided on Figure 4.

6. Budgets and Cost Estimates. The total fully funded project cost estimate is \$45.2 million, and is summarized on Table 2. The total estimate is the sum of fully funded estimates for Cougar and Blue River of \$25.2 million and \$20 million, respectively. The Cougar and Blue River cost estimates at the 1 October 1994 price level are \$21.8 million and \$15 million, respectively. These estimates are summarized on Tables 3 and 4. Detailed budgets for the various products are provided in Appendix A. The cost estimates for construction activities have been prepared by contract in the Baseline Cost Estimate, which has been prepared in the MCACES and Civil Works Breakdown Structure format.

Yearly allocations will be entered into the Budget Management System (BMS) by the PM. The TM, responsible for the product, will suballocate funds to the team members in accordance with the scope of work and within the allocation from the PM. This will establish the yearly budget for each product. As changes are approved by a Schedule and Cost Change Request (SACCR) in accordance with the Change Control Plan, changes to the allocation and budget will be made by the PM and TM.

7. Current Benefits Plan. Operation of the Blue River and Cougar projects resulted in impacts to the environment downstream due to changed temperature conditions. The biological impacts of these temperature changes were not anticipated at the time of construction. Project justification is based upon environmental outputs of the project expressed in non-monetary benefits and an incremental analysis comparing NED costs to an estimate of returning adult spring chinook to the subbasin. In accordance with Corps policy and guidance from HQUSACE, a benefit-to-cost ratio has not been prepared. Project costs, including lost power and recreation during construction, have been analyzed. There is a Federal interest in installation of these projects based upon the significance of environmental outputs and the results of the incremental analysis.

An update of the estimated project costs will be prepared in the design memorandum for both Blue River and Cougar. These costs will be compared with the estimated biological outputs of the project. Estimated biological outputs (benefits) of the project were made by USFWS in coordination with the Corps and other resource agencies based upon information gathered in the feasibility phase. The

three indicator species used for the feasibility phase include the spring chinook salmon, bull trout, and resident rainbow trout. Due to the nature of the biological outputs, and the complexity of data involved in the estimate, an update of the benefits (biological outputs) is not planned.

Bull trout have been petitioned for listing under the Endangered Species Act (ESA). The USFWS ruled that although protection under ESA was warranted, it was precluded from listing due to work on higher priority species. The project is expected to benefit bull trout below the project in the long term. Coordination with the resource agencies, including USFWS, on bull trout protection during construction will continue throughout the project.

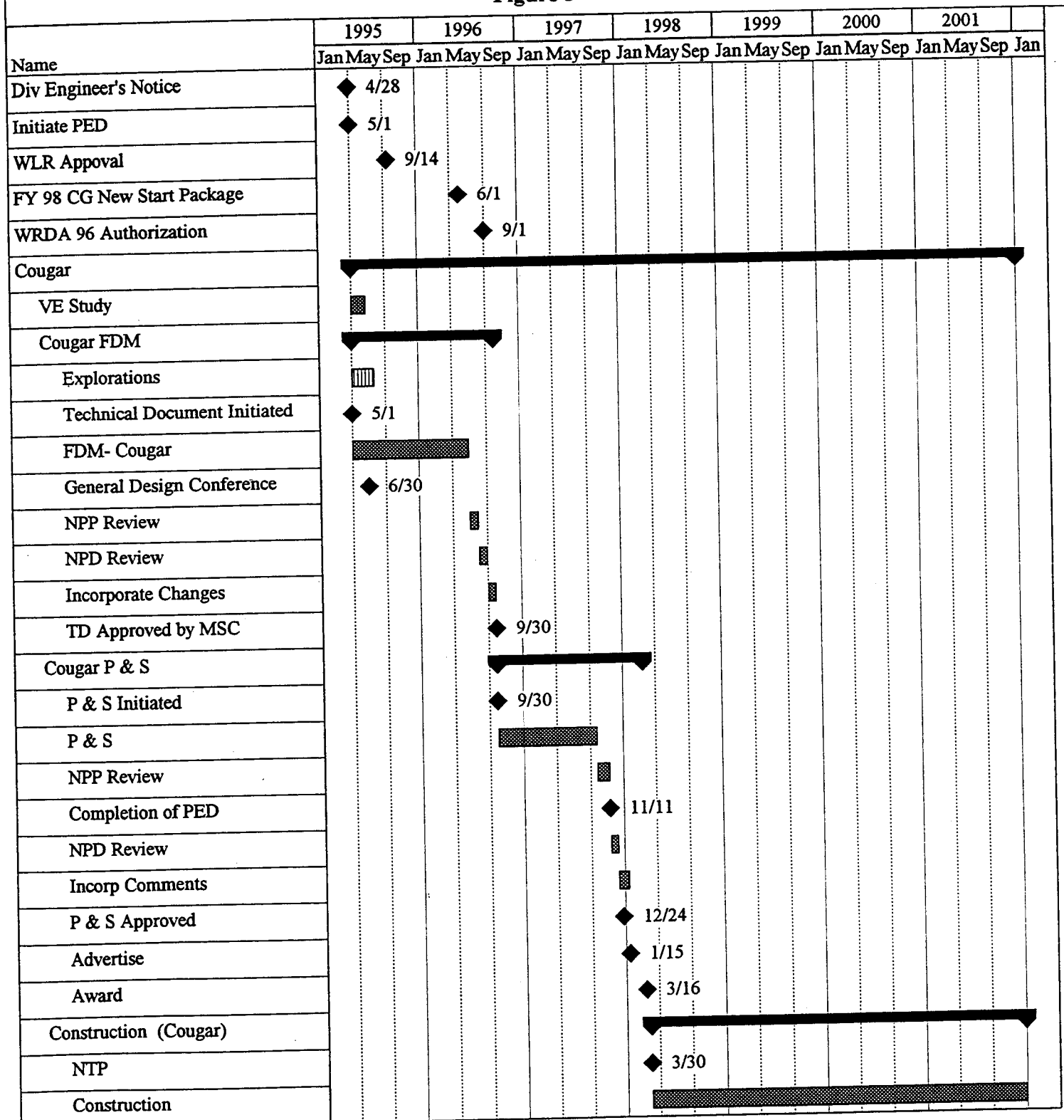
FIGURE 2
RESPONSIBILITY ASSIGNMENT MATRI

Resource Code	Blue River							Cougar						
	VE Studies	FDM	P & S	S & A	EDC	PM	Partnering	VE Studies	FDM	P & S	S & A	EDC	PM	Partnering
PM						XXXX	XXXXX						XXXX	XXXXX
PE-D														
PE-DS		XXXX	XXXX		XXXX				XXXX	XXXX		XXXX		
PE-DC														
PE-DE														
PE-DM														
PE-C														
PE-H														
PE-HD														
PE-HR														
PE-HY														
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PE-RRF														
PE-RR														
PE-T														
RE														
VE	XXXXXX							XXXXXX						
CO-S				XXXX							XXXX			
CO-FP														
CT														
OP-V														
AGEN														
USFS														
AE														
XXXXXX Responsible Office Participating Office														

8. Resource Allocation Plan (RAP). Detailed work scopes have been prepared based upon current estimates of available personnel and anticipated workload. AE indefinite delivery contracts will be used to expedite the work effort due to the expected workload within the District. The RAP is provided on Figure 5. Functional managers have been involved in development of the work scopes to ensure that adequate resources will be made available.

9. Local Cooperation Plan. All lands required to construct and operate the project are in Federal ownership. Corps policy on this project, in response to the FY 1995 Appropriations Act Conference Report, does not require non-Federal cost sharing. The cost of the will be repaid based upon the allocation among the original project purposes. As stated in the Real Estate Plan, however, close coordination with the USFS will be required during the remaining design and construction phases since they administer projects lands outside the immediate construction area.

Willamette Temperature Control Cougar Schedule Figure 3



Filename:
Date: 3/24/95

Critical



Progress



Summary



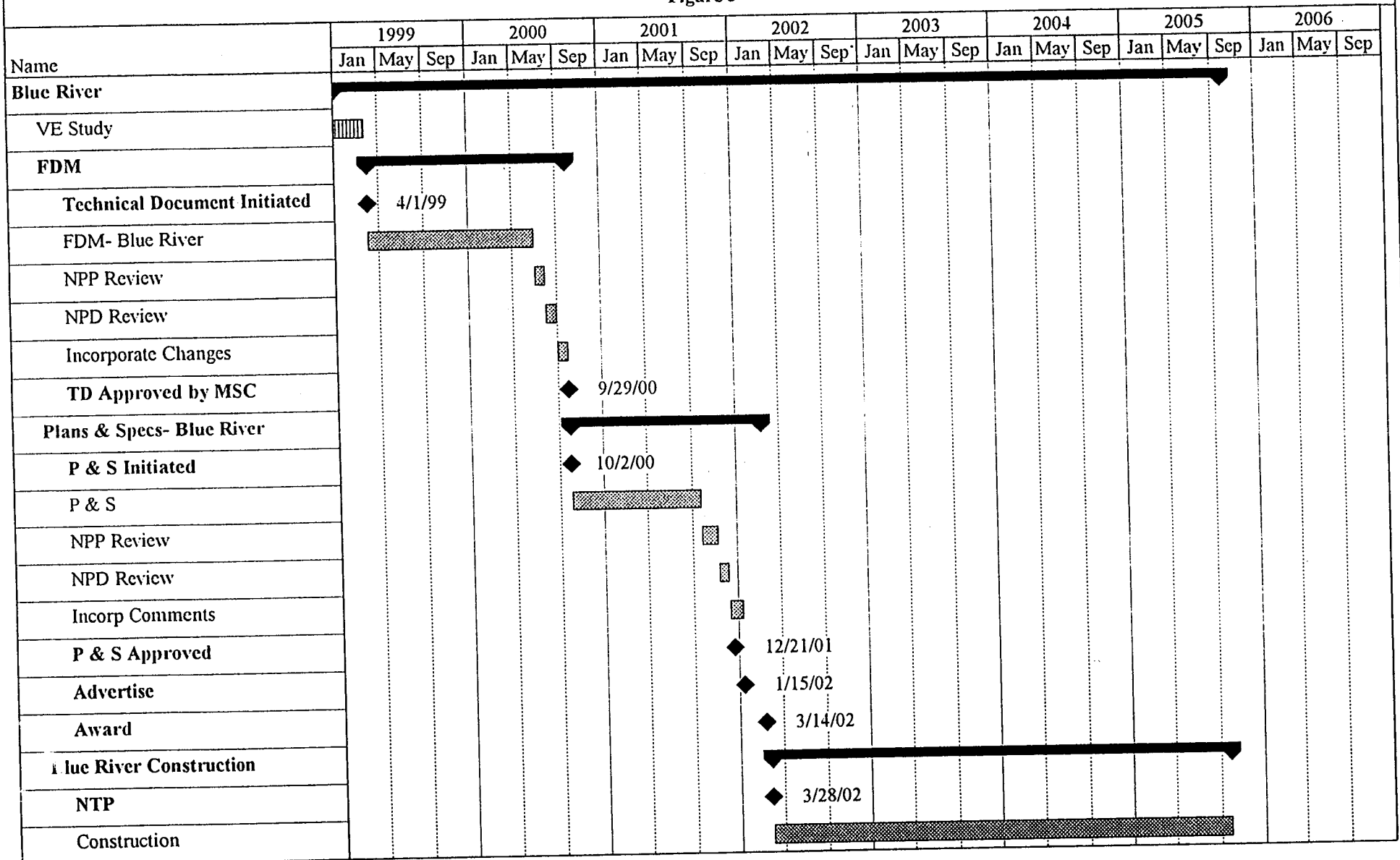
Noncritical



Milestone



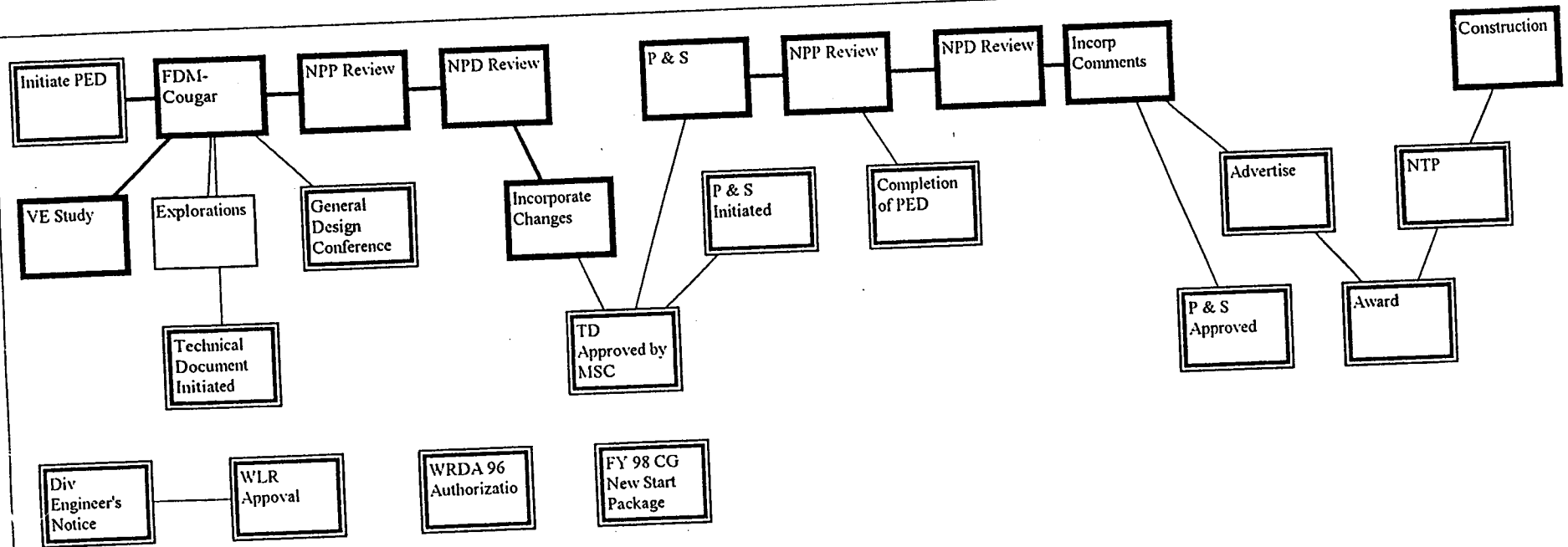
**Willamette Temperature Control
Blue River Schedule
Figure 3**



Filename:
Date: 9/13/94

Critical Progress Summary
 Noncritical Milestone

WILLAMETTE TEMPERATURE CONTROL NETWORK DIAGRAM FIGURE 4



***** TOTAL PROJECT COST SUMMARY *****

PAGE 1 OF 5

TOTAL - ALL CONTRACTS

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT AS OF 1 AUG 94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL
LOCATION: COUGAR AND BLUE RIVER DAMS, OREGON

DISTRICT: PORTLAND

P.O.C.: PATRICK T. JONES P.E., CHIEF, COST ENGINEERING BRANCH

CURRENT MCACES ESTIMATE PREPARED: 22 SEPT 94

EFFECTIVE PRICING LEVEL: 1 JUN 94

AUTHORIZ./BUDGET YEAR: 1996
EFFECT. PRICING LEVEL: 1 OCT 94

*** FULLY FUNDED ESTIMATE ***

ACCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
04 ---	DAMS					21,178	4,884	26,062	26,312	6,087	32,399
0403--	OUTLET WORKS	20,995	4,842	23%	25,838	21,178	4,884	26,062	26,312	6,087	32,399
	TOTAL CONSTRUCTION COSTS ==>	20,995	4,842	23%	25,838						
		74	10	14%	84	74	10	84	85	11	96
01 ---	LANDS AND DAMAGES					6,332	686	7,018	7,287	791	8,078
30 ---	PLANNING, ENGINEERING & DESIGN	6,263	679	11%	6,942	3,209	394	3,603	4,088	496	4,584
31 ---	CONSTRUCTION MANAGEMENT	3,174	389	12%	3,563						
	TOTAL PROJECT COSTS =====>	30,506	5,920	19%	36,427	30,793	5,974	36,767	37,772	7,385	45,157

TOTAL FEDERAL COSTS =====> 45,157
TOTAL NON-FEDERAL COSTS =====> 0
THE MAXIMUM PROJECT COST IS ==> \$45,157

DISTRICT APPROVED:

Patrick T. Jones

PROJECT MANAGER
CHIEF, COST ENGINEERING
CHIEF, OPERATIONS
CHIEF, PLANNING & ENGINEERING
CHIEF, CONSTRUCTION
DDE (PM)
CHIEF, REAL ESTATE
CHIEF, RESOURCE MANAGEMENT
DISTRICT COUNSEL

DIVISION APPROVED:

CHIEF, COST ENGINEERING
DIRECTOR, REAL ESTATE
DIRECTOR, PPMD

APPROVED DATE:

***** TOTAL CONTRACT COST SUMMARY *****

PAGE 2 OF 5

CONTRACT A - Cougar Dam

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT AS OF 1 AUG 94

PROJECT: Willamette Temperature Control Project

DISTRICT: PORTLAND

LOCATION: Cougar Dam, Oregon

P.O.C.: PATRICK T. JONES P.E., CHIEF, COST ENGINEERING BRANCH

PROJECT: Williams Dam, Oregon						F.O.B.: PARKER								
LOCATION: Cougar Dam, Oregon						AUTHORIZ./BUDGET YEAR: 1996								
CURRENT MCACES ESTIMATE PREPARED: 22 SEPT 94						EFFECT. PRICING LEVEL: 1 OCT 94								
EFFECTIVE PRICING LEVEL: 1 JUN 94						*** FULLY FUNDED ESTIMATE ***								
CCOUNT	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB	COST	CNTG	TOTAL	FEATURE	OMB	COST	CNTG	FULL
NUMBER						(%)	(\$K)	(\$K)	(\$K)	MID PT	(%)	(\$K)	(\$K)	(\$K)
04 ---	DAMS					0.9%	13,045	2,910	15,955	Jan-2000	17.1%	15,276	3,408	18,684
0403--	OUTLET WORKS, COUGAR DAM	12,932	2,885	22%	15,817	0.9%	13,045	2,910	15,955	Jan-2000	17.1%	15,276	3,408	18,684
	TOTAL CONSTRUCTION COSTS ==>	12,932	2,885	22%	15,817									
										Jan-1997	8.1%	43	6	49
01 ---	LANDS AND DAMAGES	40	6	15%	46	1.1%	40	6	46	Jan-1997	8.1%	3,699	396	4,095
30 ---	PLANNING, ENGINEERING & DESIGN	3385	362	11%	3,747	1.1%	3,422	366	3,788	Jan-2000	20.2%	2,071	301	2,372
31 ---	CONSTRUCTION MANAGEMENT	1704	247	14%	1,951	1.1%	1,723	250	1,973			21,089	4,111	25,200
	TOTAL PROJECT COSTS =====>	18,061	3,500	19%	21,561		18,230	3,532	21,762					

Table 3

***** TOTAL CONTRACT COST SUMMARY *****

PAGE 3 OF 5

CONTRACT B - Blue River Dam

THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE FEASIBILITY REPORT AS OF 1 AUG 94

PROJECT: Willamette Temperature Control Project

DISTRICT: PORTLAND

LOCATION: Blue River Dam, Oregon

P.O.C.: PATRICK T. JONES P.E., CHIEF, COST ENGINEERING BRANCH

CURRENT MCACES ESTIMATE PREPARED: 22 SEPT 94

AUTHORIZ./BUDGET YEAR: 1996

*** FULLY FUNDED ESTIMATE ***

EFFECTIVE PRICING LEVEL: 1 JUN 94

EFFECT. PRICING LEVEL: 1 Oct 94

CCOUNT NUMBER	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	FEATURE MID PT	OMB (%)	COST (\$K)	CNTG (\$K)	FULL (\$K)
04 ---	DAMS													
0403--	OUTLET WORKS, BLUE RIVER DAM	8,063	1,957	24%	10,021	0.9%	8,133	1,974	10,107	Nov-2004	35.7%	11,036	2,679	13,715
	TOTAL CONSTRUCTION COSTS ==>	8,063	1,957	24%	10,021	0.9%	8,133	1,974	10,107	Nov-2004	35.7%	11,036	2,679	13,715
01 ---	LANDS AND DAMAGES	34	4	12%	38	1.1%	34	4	38	Jan-2001	23.3%	42	5	47
30 ---	PLANNING, ENGINEERING & DESIGN	2878	317	11%	3,195	1.1%	2,910	320	3,230	Jan-2001	23.3%	3,588	395	3,983
31 ---	CONSTRUCTION MANAGEMENT	1470	142	10%	1,612	1.1%	1,486	144	1,630	Nov-2004	35.7%	2,017	195	2,212
	TOTAL PROJECT COSTS =====>	12,445	2,420	19%	14,866		12,563	2,442	15,005			16,683	3,274	19,957

Table 4

10. Acquisition Plan.

a. Engineering and Professional Services. AE indefinite delivery contracts will be used during PED and design activities on Cougar and Blue River. Several delivery orders will be issued for various phases and locations of work as described in the work scopes in Appendix A. This is required to complete the work on a reasonable schedule due to other workload within the District.

b. Construction. Due to the phased construction schedule at the two projects, the nature and type of construction work, the physical location of the projects, and the relatively small work area in the intake area, one construction contract at each site is the recommended plan for accomplishment of the work. The contractor at each site will be responsible for all construction and installation work, including supply of electrical and mechanical equipment. This will also allow for changes in the work at Blue River to be made as necessary based upon our experience at Cougar. The contracting method may be evaluated further during the PED phase in an attempt to reduce the length of construction.

11. Real Estate Plan. All the construction right-of-way requirements for the temperature control project at both Cougar and Blue River Lakes are located on Federally owned lands within the existing Corps project boundaries. All of the lands within the two project boundaries fall either under the administrative jurisdiction of the USFS or the Corps and the construction right-of-way requirements at both projects include lands under the jurisdiction of both agencies. That portion of the construction right-of-way required as actual sites for both modified intake structures, as well as the exit channel of the diversion tunnel at Cougar and the cofferdam at Blue River, are located on lands which fall within the administrative jurisdiction of the Corps.

Discussions initiated with the USFS during the feasibility phase of study will continue during FDM preparation. A real estate section will be included in each FDM which will outline all construction right-of-way requirements involved at the specific project locations. A Memorandum of Understanding (MOU) between the two Federal agencies will be developed for each project location (Blue River and Cougar) during the plans and specifications stages to outline specific responsibilities of each agency during construction. These MOU's will grant the Corps and their contractors permission to enter upon, occupy, and use those USFS lands within the project right-of-way requirement for the purpose of constructing the Willamette Temperature Control project. During the EDC phase, construction activities will be monitored with relationship to the negotiated MOU(s) and amendments will be developed as required.

12. Total Quality Management Plan. Design of the projects will be accomplished in accordance with Corps standards and regulations. Design reviews and value engineering studies are planned to ensure a quality product at the least cost. The construction contractor will be responsible for quality control, with Corps personnel on-site for quality assurance actions.

The resource agencies have provided input throughout earlier studies and the feasibility phase concerning temperature release goals and protection of fishery resources during construction. Their involvement is expected to continue through the design phase and their participation in a coordinating committee to discuss issues arising during the construction phase.

FIGURE 5
RESOURCE ALLOCATION PLAN

ID	Remaining Duration	Duration	Name	Cost	Early Start	Early Finish
2	4w	4w	VE Study	\$227,000.00	5/1/95	5/26/95
3	61w	61w	Feature Design Memorandum	\$1,121,000.00	5/1/95	6/30/96
4	13.2w	13.2w	Review	\$15,000.00	7/1/96	9/30/96
5	52.4w	52.4w	Plans & Specifications	\$909,000.00	9/30/96	9/30/97
6	13.2w	13.2w	Review	\$25,000.00	10/1/97	12/31/97
7	8.4w	8.4w	Advertise	\$10,000.00	1/1/98	2/28/98
8	4.4w	4.4w	Award	\$5,000.00	3/2/98	3/31/98
9	195.8w	195.8w	Construction	\$18,684,000.00	4/1/98	12/31/01
10						
12	4.6w	4.6w	VE Study	\$228,000.00	3/1/99	3/31/99
13	65.4w	65.4w	Feature Design Memorandum	\$935,000.00	4/1/99	7/1/00
14	13w	13w	Review	\$15,000.00	7/3/00	9/30/00
15	52w	52w	Plans & Specifications	\$792,000.00	10/2/00	9/30/01
16	13.2w	13.2w	Review	\$25,000.00	10/1/01	12/31/01
17	8.6w	8.6w	Advertise	\$10,000.00	1/1/02	2/28/02
18	4.2w	4.2w	Award	\$5,000.00	3/1/02	3/31/02
19	187.2w	187.2w	Construction	\$13,715,000.00	4/1/02	10/31/05

13. Value Engineering Plan. The Water Resources Development Act of 1986, Section 911, requires a cost effectiveness review for any project costing in excess of \$10,000,000. It is also Corps policy to perform a cost effectiveness review on contracts in excess of \$2,000,000. The Value Engineering (VE) program will be utilized to assure that the project is designed in the most cost effective manner for the life of the project. The VE studies will be performed at the beginning of the feature design memorandum stage, when changes in the design will have less impact on the cost and schedule of the projects. The feasibility report will be used as the basis for the VE studies that will certify compliance with Section 911 requirements. Project features will be investigated to identify potential cost savings. Smaller scope VE actions directed at specific components of construction will be taken as appropriate.

The VE studies will be accomplished using a combination of technical experts from the Chief of Engineer's Value Engineering Study Team, Waterways Experiment Station, and Portland District. A separate scope of work for this effort has been prepared, and included in Appendix A. One of the focus items during the VE study, and throughout the design process, will be to reduce the overall construction schedule to limit temporary environmental and economic impacts and the cost of repeated contractor mobilizations.

The final area of VE efforts on this project will be the value engineering Change Proposal (VECP) process during construction. The contractor has the opportunity to make cost saving recommendations. If these recommendations are approved, the contractor will share a portion of the savings with the Government. The construction contractors will be encouraged to actively participate in the VE program. The Value Engineering Officer has made an estimate of anticipated costs to review and process these proposals during construction.

14. Safety Plan. Construction of the project will be in accordance with the Corps Safety Manual. Due to the nature of the construction, recreational use at the projects, and heavy use of roads (both pedestrian and vehicular traffic) near the project and construction areas, several specific concerns must be addressed. The construction contractor at each project will be required to submit a safety plan for approval. Traffic control will be required throughout the Cougar summer construction period. In addition, fencing will be required to keep people out of the construction area and to ensure public safety. Diving requirements during design and construction phases will be performed in accordance with standard Corps procedures.

Due to the limited amount of storage available during construction between the residual pool and the contractor's work area, a flood warning system will be installed during construction to warn the contractor of approaching high flows. The contractor will be required to submit a flood emergency plan for review and approval. This plan will outline the contractor's emergency procedures to evacuate the construction area in the event of heavy rainfall. The plan will include appropriate procedures for notification of the Corps in the event of an emergency evacuation.

Instrumentation will be monitored and evaluated throughout construction to ensure the stability and safety of the embankment dams. The Engineering During Construction scope of work contains the estimated cost to perform these actions.

15. Security Plan. This section is not applicable to this project. During reservoir drawdown, the construction area around the dam will be restricted by the contractor.

16. Cultural Resource Plan. There are several known cultural resource sites in the construction area. During feasibility, an inventory of sites and estimated cost to protect and secure the sites during construction was performed. The baseline cost estimate includes costs to monitor all sites, and protect and/or stabilize those sites that have the potential for eligibility on the National Register. The work will be coordinated with the State Historic Preservation Office, as well as other requirements of the National Historic Preservation Act. . It is also possible that there may be additional sites below minimum flood control pool that were not evaluated during feasibility. This area below minimum pool will be evaluated for additional sites after initial drawdown at the beginning of construction. An appropriate level of contingency has been included in the cultural resources protection estimate.

17. Environmental Plan. The purpose of the project is to modify the temperature of water released from the projects to improve the downstream conditions for anadromous and resident fish. However, during construction there are number of temporary environmental impacts. Construction at the two projects has been phased to minimize impacts in the McKenzie Subbasin. Temporary construction impacts are discussed in the Environmental Impact Statement. The major items of concern are: potential turbidity increases resulting from draw down, construction activities, and yearly flood control operations; the potential for reduced flows during the summer season, when project outflows may be less than current minimum flows released from the projects; and reservoir habitat and fish losses during construction.

The reservoir draw down and construction plan was coordinated with the ODFW, USFWS, EWEB, and USFS. Continued coordination regarding measures to minimize the temporary adverse impact from construction on upstream bull trout may be necessary. We have met with the bull trout working group, comprised of resource agency representatives, a number of times to outline measures to reduce these construction impacts. The intake to the diversion tunnel at Cougar will be screened to keep bull trout in the residual pool.

Additional design and value engineering studies during the PED phase may alter these plans. The quantity and composition of sediments in the pool have been estimated based upon our experience at other projects, previous studies of the geology and geography of the upstream basin, and commercial use of the areas upstream of the projects. For the feasibility report, it was assumed that materials excavated for tower construction and water diversion can be deposited into the pool area. Sediment samples will be taken during the PED phase to refine estimates made in the feasibility phase.

Coordination with the resource agencies during construction will be accomplished through monthly meetings, or as determined necessary by involved parties, throughout the construction period. In addition to the fishery resource agencies, several agencies and organizations have asked to participate in this coordinating committee. These include ODFW, Oregon DEQ, USFS, McKenzie Watershed Council, U.S. EPA, Eugene Water and Electric Board, and Oregon Water Resources Department. Turbidity below the projects will be monitored during construction to determine if changes in the draw down scheme for the reservoirs or changes in the size of the residual pool maintained at Cougar and Blue River are required to reduce the impacts downstream.

The South Fork McKenzie River above and below the project is under consideration by the USFS for designation as a national wild and scenic river under the Wild and Scenic Rivers Act (WSRA). The mainstem of the McKenzie River is also being considered for designation by the Bureau of Land

Management. We have initiated coordination with USFS as required by Section 7 of WSRA, and have attempted to resolve their concerns regarding upstream bull trout impacts during construction. A final determination will be made following review of the final EIS.

18. Operation and Maintenance Plan. The project will continue to be operated by the Corps. As stated above, the projects will be operated for flood control during construction with a residual pool to limit downstream impacts from suspended sediment and turbidity. Based upon monitoring during construction, actual rainfall during the construction period, and ongoing coordination with the resource agencies, changes in the plan for operation during construction may be required to limit downstream impacts.

The Corps has minimum flow requirements at Albany and Salem that will most likely require releases during construction from other storage projects in the Willamette Basin. We have estimated the impacts for an average year based upon a model of the system. However, the actual impact and flows will be dependent upon weather patterns during construction. The minimum flow requirement at Albany and Salem has been reduced in the past during drought years through coordination with various state agencies. Coordination will occur with the appropriate state agencies on planned releases during the construction period.

Following construction, the projects will be operated to release water that more closely reflects pre-project temperatures. It is anticipated that release temperatures will be modified after construction as experience with the system grows (similar to what occurred in the Rogue River basin). The effectiveness of the temperature control structures will be evaluated after construction. Temperature will be monitored for three years below Cougar and Blue River dams. Normal project operations will be maintained during this time.

In addition to the temperature measurements, fishery impacts will be evaluated for seven years following completion of construction at both projects. Adult returns at Leaburg are currently being monitored by EWEB. This data will be compared with pre project data to determine the increase in returns. Spawning ground surveys conducted by ODFW will be expanded, if necessary, to include upriver areas to determine the change in spawning distribution. Fry counts currently being done by ODFW under contract to EWEB will be used to determine changes in upriver fry emergence timing. The details of the monitoring program will be refined during future design stages. The cost of this program is estimated to be approximately \$420,000, and will be provided by Operations and Maintenance funding.

Operations and maintenance manuals and as-built drawings will be provided to the Willamette Valley project at the end of construction. In addition, post construction inspections will be performed to ensure that all deficiencies are corrected prior to final contract close-out and turnover of the project to operations personnel. Repair, replacement, rehabilitation requirements are outlined in the Engineering Technical Appendix B and C to the Feasibility Report.

19. Management Control Plan. The project manager will allocate funds to the technical managers for completion of products as outlined in this PMP and detailed scopes of work in accordance with ER 5-7-1. Technical managers are responsible for delivery of assigned products and to suballocate funds to team members in accordance with the scope of work. The technical manager can change the

distribution between team members without approval of the project manager as long as the scope or overall cost of the product are not changed.

The project manager will allocate funds yearly in the Budget Management System (BMS). Technical managers are responsible for sub allocations and detailed budgeting for their assigned products in BMS. Section and Branch Chiefs are responsible to provide the resources necessary to complete the products on time and within budget. Resourcing problems will be raised to the project manager at the earliest possible time. The project manager will update the master project schedule on a monthly basis with input from the technical managers. The technical managers are responsible for development and updating of detailed schedules necessary for the day to day management of their assigned product(s).

The project manager is the principle point of contact on the project with outside agencies and the public. Technical managers are expected to have discussions with their technical counterparts, but are expected to keep the project manager informed of all pertinent contacts.

The Corps will offer the construction contractors the opportunity to enter into a partnering agreement as outlined in the attached scope of work. The Administrative Contracting Officer (ACO), responsible for administration of the contract and on-site quality assurance, has authority to approve construction changes with cost impacts up to \$100,000. Each fiscal year, the project manager will allocate approximately five percent contingency to the ACO for these modifications. A change order review board (CORB) will be established to review all potential modifications to the contract. The members of the CORB will be the ACO, project manager, designated engineering representative, and project manager of the Willamette Valley project. The CORB will meet on a monthly basis during the construction period, or as determined necessary.

In addition, an MOU between the USFS and the Corps will be developed in the plans and specifications phase as discussed previously. This MOU will cover the responsibilities of the two agencies during the construction period. In addition, as discussed above, an interagency committee will be formed to discuss potential changes from the plans outlined in the PMP that may be needed during construction to minimize unforeseen environmental impacts.

20. Reporting Requirements. The project manager is responsible for preparation of all reports necessary for project budgeting (PB documents, 2101's, justification sheets, fact sheets, etc.) and reporting through the Project Review Board (PRB). The project manager is also responsible for initial input and progressing of the Open Plan project master schedule printed on a monthly basis for distribution to the District. Copies of pertinent information, including phone messages, will be provided to the appropriate technical manager.

As stated above, technical managers are responsible for initial input and monthly progressing of the detailed schedules necessary for the day to day management of their assigned products. Copies of all pertinent reports, memoranda, and summaries of discussions with outside agencies will be provided to the project manager. Correspondence with outside agencies and the public will be routed through the project manager for concurrence and to assure consistency. Meeting minutes will be prepared by the office that scheduled the meeting or person responsible for the majority of issues under discussion. Copies will be provided to appropriate members of the project team.

21. Change Control Plan. The project manager is responsible for approving, or elevating to the appropriate level defined in ER 5-7-1 for approval, all changes to the cost and schedule not discussed in Paragraph 19. The technical manager responsible for the change will notify the project manager and appropriate functional chiefs of a potential change at the earliest possible time. Following a review of potential actions to eliminate the impact, a Schedule and Cost Change Request (SACCR) will be submitted to the project manager by the technical manager responsible for preparation of the product. For changes within the authority of the construction engineer, a copy of the signed modification request will be provided to the project for contingency management purposes. All means practical to avoid schedule and cost impacts will be considered. The CORB will review and approve construction modifications as discussed in Paragraph 19.

The project manager is responsible for taking action on the SACCR and for management of contingencies as outlined in ER 5-7-1. Issues that cannot be resolved will be elevated to the appropriate functional chiefs for timely resolution by the project and/or technical manager. Once approved, the changes will be reflected in the BMS, Open Plan, and PRB reports.

BASELINE SCOPE OF WORK

PROJECT: Cougar Temperature Control		DATE PREPARED: 8/29/94	
SUBPRODUCT TITLE: Feature Design Memorandum		SUBPRODUCT #/WBS ID: WTC CCU	
TECHNICAL MANAGER: Karl Swanson	OFFICE/OBS: NPP-PE-DS	PROJECT/STUDY MANAGER: Doug Clarke	OFFICE/OBS: NPP-PM
SUBPRODUCT SUMMARY DESCRIPTION: (see attached)			

- PMP Worksheet (summary, total cost by office)
- Specific product outline (plates, text, drawings, specifications)
- Individual office Budget and Task Worksheets

UPWARD REPORTED MILESTONES	%	OMP	INTERNAL MILESTONES	%	DATE COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
	FY95		FY96	FY97	FY98	FY99	TOTAL
CONSTRUCTION COST							
	CONTINGENCY						
	TOTAL CONSTR. COST						
	0.35		0.65				
BASELINE ALLOCATION *	414		767				1183
	CONTINGENC						
	TOTAL ESTIMATE						
							128
							1311
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Submitted: <div style="border-top: 1px solid black; width: 100%;"></div> <div style="display: flex; justify-content: space-between;"> (Technical Manager) (Date) </div> </div> <div style="width: 45%;"> Approved: <div style="border-top: 1px solid black; width: 100%;"></div> <div style="display: flex; justify-content: space-between;"> (Project\Study Manager) (Date) </div> </div> </div>							

* Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET								
PROJECT: Willamette River Temperature Control Feasibility Study								
LEAD: CENT-PE-DS Swanson								
TASK: Cougar FDM								
Organization	Office Symbol	Org Code	COSTS					
			Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$30,804	\$200	\$250	\$42,570	\$7,382	\$81,207
Design Branch	PE-D	DB	\$10,639	\$0	\$0	\$0	\$1,064	\$11,703
Civil/Land. Design	PE-DC	DC	\$47,070	\$300	\$4,080	\$10,000	\$12,290	\$73,740
Electrical Design	PE-DE	DD	\$16,564	\$250	\$3,100	\$0	\$3,983	\$23,896
Mechanical Design	PE-DM	DF	\$30,037	\$75	\$6,600	\$0	\$3,671	\$40,383
Struct/Arch Des.	PE-DS	DG	\$88,502	\$400	\$26,800	\$225,496	\$34,120	\$375,317
H & H Branch	PE-H	DK	\$11,093	\$0	\$0	\$0	\$1,109	\$12,203
Hydraul. Design	PE-HD	DL	\$113,970	\$1,175	\$4,900	\$30,000	\$7,502	\$157,547
Res. Regulation	PE-HR	DR	\$15,341	\$0	\$0	\$61,184	\$15,305	\$91,830
Hydrology	PE-HY	DN	\$82,565	\$450	\$900	\$0	\$8,392	\$92,307
Geotech Branch	PE-G	CJ	\$158,469	\$1,388	\$7,610	\$38,075	\$20,554	\$226,096
Economics	PE-PE	ED	\$16,930	\$0	\$0	\$0	\$1,693	\$18,623
Fish & Wldlf	PE-RR	EN	\$18,474	\$875	\$0	\$0	\$1,935	\$21,283
Environmental	PE-RP	EM	\$5,997	\$0	\$0	\$0	\$2,999	\$8,996
Tech. Branch	PE-T		\$49,289	\$0	\$0	\$0	\$4,929	\$54,218
Project	OP-V	JB	\$1,500	\$0	\$0	\$0	\$0	\$1,500
Real Estate	RE-AP	BU	\$8,947	\$100	\$55	\$0	\$910	\$10,012
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Contract Procurement	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$1,750	\$0	\$0	\$0	\$0	\$1,750
TOTALS			\$715,941	\$5,213	\$54,295	\$407,325	\$127,838	\$1,310,611

COUGAR FDM SCOPE OF WORK

PLATES

C1	DC Site Map
C2	DC Contractor Operations
C3	DC Construction Sequence
C4	DS Diversion Tunnel
C5	DS Demolition - Plan and Section
C6	DS Demolition - Upstream Elevation
C7	G Tunnel Chamber Excavation
C8	GG Excavation Plan
C9	GG Excavation and Treatment Sections I
C10	GG Excavation and Treatment Sections II
C11	DS Upstream Elevation
C12	DS Longitudinal Section
C13	DS Transverse Section
C14	DS Plan
C15	DS Sections I
C16	DS Sections II
C17	DS Details
C18	DS R O Trashrack
C19	DS Penstock Trashrack
C20	DS Wetwell Trashrack
C21	DS Floating Trashracks I
C22	DS Floating Trashracks II
C23	DM Equipment Plan
C24	DM Temperature Control Gate
C25	DM Bypass Gate
C26	DM Low Level Outlet Gate
C27	DM Fuse Panel
C28	HD Instrumentation
C29	DE Electrical Site Plan
C30	DE One Line Diagram

COUGAR FDM SCOPE OF WORK continued...

TEXT SECTIONS

- 1 DS Introduction
- 2 DS Existing Project Features
- 3 DS Proposed Features
- 4 DC Civil and HTRW
- 5 G Geotechnical
- 6 HY Hydrology
- 7 HD Hydraulic
- 8 HD Instrumentation
- 9 DS Structural
- 10 DM Mechanical
- 11 DE Electrical
- 12 DS Construction (C, DC)
- 13 DS Operation and Maintenance
- 14 C Cost Estimate
- 15 PE Economics
- 16 RE Real Estate
- 17 DS Coordination and Correspondance
- 18 DS Recommendation

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	56	Hours	\$48	\$2,688	
	Cost Engineer	12	320	Hours	\$42	\$13,440	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$16,128	
2) Tech Indirect (Est Rate:)		64.0%				\$10,322	
3) General Admin (Est Rate:)		27.0%				\$4,355	
TOTAL LABOR CHARGES						\$30,804	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	200	# Miles	\$0.25		\$50	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$200	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
	Materials		LS			\$50	
	Reproduction		LS			\$200	
SUBTOTAL OTHER EXPENSES						\$250	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	40	Hours	\$80		\$3,200	
	Project Manager	0	Hours	\$72		\$0	
	Senior Cost Engineer	280	Hours	\$65		\$18,200	
	Cost Engineer	260	Hours	\$53		\$13,780	
	Junior Cost Engineer	0	Hours	\$36		\$0	
	Engineering Tech	40	Hours	\$31		\$1,240	
	Secretary	40	Hours	\$27		\$1,080	
	labor subtotal					\$37,500	
b. Materials			LS			\$200	
c. Transportation			LS			\$1,000	
d. Profit			10.0%			\$3,870	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$42,570	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$73,824					
12) Contingency, Account 30.A.A.		10%				\$7,382	
13) TOTAL FOR OFFICE						\$81,207	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Cost Engineering Branch						
	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	General Design Conference		8	8				
	Review		8	16				
	Coordination		8	24				
	Team meetings		8	24				
	A/E D.O. prepare/estimate/negotiate		4	40				
	A/E D.O. coordinate/review		4	40				
	MCACES			80				
	Site visit		16	16				
	Spreadsheets & FDM Text			16				
	Finalize Costs & Documentation			16				
	Alternative Cost Support			40				
		0	56	320	0	0	0	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	PM	Sr CE	CE	Jr CE	Tech	Secre
Management	8						40
Review	8						
Coordination	8						
Team meetings			8	8			
Background/Scope of Work			8	8			
Review Design & Check Quantities			24	24		40	
Provide Constructibility Review Comments to TM			40				
Constructibility/Retrofit considerations				8			
Construction Methods			16	16			
Bid Schedule				8			
Labor Costs, Data Base Update				8			
Equipment Costs Updates				8			
Crews			16	16			
MCACES			120	100			
Write Detailed Construction Narratives			24	24			
Construction Schedule Input and Review			8	16			
Site visit	16		16	16			
A/E LABOR TOTALS	40	0	280	260	0	40	40

REMARKS
- 1 A/E delivery order under \$150K
CFDM.XLW

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	96	Hours	\$52	\$4,992	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	34	Hours	\$17	\$578	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$5,570	
2) Tech Indirect (Est Rate:)		64.0%				\$3,565	
3) General Admin (Est Rate:)		27.0%				\$1,504	
TOTAL LABOR CHARGES						\$10,639	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials			LS		\$0
		Reproduction			LS		\$0
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$10,639	
12) Contingency, Account 30.A.A.		10%				\$1,064	
13) TOTAL FOR OFFICE						\$11,703	

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Civil and Environmental Design				DC	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	72	Hours	\$44	\$3,168	
	Architect/Engineer	12	488	Hours	\$37	\$18,056	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	108	Hours	\$26	\$2,808	
	Secretary	5/6	36	Hours	\$17	\$612	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$24,644	
2) Tech Indirect (Est Rate:)				64.0%		\$15,772	
3) General Admin (Est Rate:)				27.0%		\$6,654	
TOTAL LABOR CHARGES						\$47,070	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days		\$75	
	Govt Vehicle	1200	# Miles	\$0.25		\$300	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$300	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		108 #Hours		\$35	
	Materials	LS				\$300	
	Reproduction	LS				\$0	
SUBTOTAL OTHER EXPENSES						\$4,080	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS				\$0
c. Transportation			LS				\$0
d. Profit			10.0%				\$0
9) Other Payments		Purchase Order for Remote Underwater Video Camera				\$10,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$10,000	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$61,450	
12) Contingency, Account 30.A.A.				20%		\$12,290	
13) TOTAL FOR OFFICE						\$73,740	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Civil and Environmental Design						
	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	General Design Conference			16				
	Coordination Meetings		4	12				
	Contractor Operations Plate					40		
	-Access Roads			24			2	
	-Clearing, Surfacing			12				
	-Contactor Work Areas			24			2	
	-Contractor Staging Areas			24			2	
	Environmental Protection Inputs							
	-Sediment Abatement Plan for Site Work		24				2	
	-Erosion Control Plan for Site Work		24				2	
	-Solid Waste Disposal			24			2	
	-Haz Waste Disposal			24			2	
	Construction Sequence Plate					40		
	-Drawdown		4	24			2	
	-Diversion		4	24			2	
	-Initial Season's Work		4	24			2	
	-Winter Pool Preparation		4	24			2	
	-Summer Cleanup		4	24			2	
	HTRW							
	-Review of Past Construction Activities			24			2	
	-Develop Anticipated Drawdown Findings			24			2	
	-Define Cleanup Requirements			24			2	
	Bank Protection							
	-Agency Coordination			24			2	
	-Development of Plan			24		8	2	
	-Layout, design and drawings			24		20	2	
	S&A for Remote Camera PO Contract			24				
	Coordination for Remote Camera PO Contract			40				
		0	72	488	0	108	36	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS
<p>-includes civil, HTRW, and construction text</p> <p>-includes quantity estimates and site visits</p>

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Electrical Design				DD	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0 Hours	\$52		\$0	
	Section Chief	13	12 Hours	\$44		\$528	
	Architect/Engineer	12	72 Hours	\$37		\$2,664	
	Architect/Engineer	11	92 Hours	\$34		\$3,128	
	Technician	7/ 9	80 Hours	\$26		\$2,080	
	Secretary	5/6	16 Hours	\$17		\$272	
	other		0 Hours	\$12		\$0	
Subtotal In-House Direct Labor						\$8,672	
2) Tech Indirect (Est Rate:)		64.0%				\$5,550	
3) General Admin (Est Rate:)		27.0%				\$2,341	
TOTAL LABOR CHARGES						\$16,564	
TRAVEL:							
4) Travel & Transportation		Per Deim		2 # Days	\$75	\$150	
	Govt Vehicle	400 # Miles	\$0.25		\$100		
	Flight	#Trips	\$250		\$0		
	Auto Rental	#Times	\$35		\$0		
SUBTOTAL TRAVEL						\$250	
OTHER EXPENSES:							
5) Graphics						\$100	
6) Misc Expenses		CADD		80 #Hours	\$35	\$2,800	
	Materials	LS			\$100		
	Reproduction	LS			\$100		
SUBTOTAL OTHER EXPENSES						\$3,100	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$19,914	
12) Contingency, Account 30.A.A.		20%				\$3,983	
13) TOTAL FOR OFFICE						\$23,896	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Electrical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
	Review		4	16	4			
	Coordination Meetings		4	6	12		2	
	General Design Conference			8				
	Site Visits			8	16			
	Review Previous Documents			2	4			
	Load Analysis			2	8			
	Main Feeder Design			2	4			
	Prepare Plates (2)		2	4	12	80		
	Prepare Text		2	12	24		12	
	Estimate Quantities			4	8			
	Coordination with OP-V			8			2	
		0	12	72	92	80	16	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

CEDM.XLW

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Mechanical Design				DF	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	29	Hours	\$44	\$1,276	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	418	Hours	\$34	\$14,212	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	14	Hours	\$17	\$238	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$15,726	
2) Tech Indirect (Est Rate:)		64.0%				\$10,065	
3) General Admin (Est Rate:)		27.0%				\$4,246	
TOTAL LABOR CHARGES						\$30,037	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days		\$75	
	Govt Vehicle	300	# Miles	\$0.25		\$75	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$75	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		160 #Hours		\$35	
	Materials	LS				\$500	
	Reproduction	LS				\$500	
SUBTOTAL OTHER EXPENSES						\$6,600	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$36,712					
12) Contingency, Account 30.A.A.		10%				\$3,671	
13) TOTAL FOR OFFICE						\$40,383	

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BUDGET WORKSHEET							9-Nov-94
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM			ORG CODE		
OFFICE:		Structural and Architectural Design			DG		
DIRECT CHARGES:							
1) a. Labor		Amount	Staff Average	\$ Amount			
	Branch Chief	14	0 Hours	\$52			\$0
	Section Chief	13	144 Hours	\$44			\$6,336
	Architect/Engineer	12	792 Hours	\$37			\$29,304
	Architect/Engineer	11	204 Hours	\$34			\$6,936
	Technician	7/ 9	108 Hours	\$26			\$2,808
	Secretary	5/6	56 Hours	\$17			\$952
	other		0 Hours	\$12			\$0
Subtotal In-House Direct Labor							\$46,336
2) Tech Indirect (Est Rate:)			64.0%				\$29,655
3) General Admin (Est Rate:)			27.0%				\$12,511
TOTAL LABOR CHARGES							\$88,502
TRAVEL:							
4) Travel & Transportation		Per Deim	4	# Days	\$75		\$300
		Govt Vehicle	400	# Miles	\$0.25		\$100
		Flight		#Trips	\$250		\$0
		Auto Rental		#Times	\$35		\$0
SUBTOTAL TRAVEL							\$400
OTHER EXPENSES:							
5) Graphics							\$9,000
6) Misc Expenses		CADD	80	#Hours	\$35		\$2,800
		Materials		LS			\$5,000
		Reproduction		LS			\$10,000
SUBTOTAL OTHER EXPENSES							\$26,800
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount	Staff Average	\$ Amount			
a. Labor	Principal	4	Hours	\$115			\$460
	Supervisor	128	Hours	\$100			\$12,800
	Senior Architect/Engineer	888	Hours	\$85			\$75,480
	Architect/Engineer	1132	Hours	\$61			\$69,052
	Technician / Drafter/CADD	640	Hours	\$66			\$42,240
	Secretary	16	Hours	\$29			\$464
	other	0	Hours	\$0			\$0
	labor subtotal						\$200,496
b. Materials			LS				\$2,500
c. Transportation			LS				\$2,000
d. Profit			10.0%				\$20,500
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE							\$225,496
SUMMARY							
11) Total Estimated Cost for Account 30.A.							\$341,197
12) Contingency, Account 30.A.A.			10%				\$34,120
13) TOTAL FOR OFFICE							\$375,317

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Structural and Architectural Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
General Design Conference				32				
review			56	96	32			
coordination			24	288				
meetings			20	48	36	12		
A/E D.O. prepare/estimate/negotiate			16	80		4	24	
A/E D.O. coordinate/review			16	96	40	40	24	
agency corespondance/presentations			8	48		12	8	
site visits				16	16			
VE changes				64	16	40		
write FDM text sections			4	8	40			
schedules				16	24			
		0	144	792	204	108	56	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
management		4	16				16	
review			16					
coordination			16					
meetings			16	32	32			
background/previous documents				24	24			
develop design criteria			24					
alternative investigation			8	8	80			
preliminary design and layout				160	160			
detailed design and analysis				120	320			
steel design details				40	160			
seismic FEM analysis				320				
write structural section text				4	60			
prepare 16 CADD plates					160	640		
calculate quantities				4	40			
site visit			16	16	16			
study existing rebar splices under seismic loads			16	160	80			
A/E LABOR TOTALS		4	128	888	1132	640	16	0
REMARKS								
-2 A/E delivery orders under \$150K will be used								

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		H & H Branch				DK	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	96	Hours	\$52	\$4,992	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	48	Hours	\$17	\$816	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$5,808	
2) Tech Indirect (Est Rate:)		64.0%				\$3,717	
3) General Admin (Est Rate:)		27.0%				\$1,568	
TOTAL LABOR CHARGES						\$11,093	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			\$0
		Reproduction		LS			\$0
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$11,093	
12) Contingency, Account 30.A.A.		10%				\$1,109	
13) TOTAL FOR OFFICE						\$12,203	

BUDGET WORKSHEET										26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Cougar FDM (all in FY96)								ORG CODE	
OFFICE:		Hydraulic Design								DL	
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
Branch Chief		14		0 Hours		\$52				\$0	
Section Chief		13		125 Hours		\$44				\$5,545	
Architect/Engineer		12		448 Hours		\$37				\$16,714	
Architect/Engineer		11		1078 Hours		\$34				\$36,382	
Technician		7/ 9		40 Hours		\$26				\$1,029	
Secretary		5/6		0 Hours		\$17				\$0	
other				0 Hours		\$0				\$0	
Subtotal In-House Direct Labor										\$59,670	
2) Tech Indirect (Est Rate:)				64.0%						\$38,189	
3) General Admin (Est Rate:)				27.0%						\$16,111	
TOTAL LABOR CHARGES										\$113,970	
TRAVEL:											
4) Travel & Transportation											
Per Deim		13		# Days		\$75				\$975	
Govt Vehicle		800		# Miles		\$0.25				\$200	
Flight				#Trips		\$250				\$0	
Auto Rental				#Times		\$35				\$0	
SUBTOTAL TRAVEL										\$1,175	
OTHER EXPENSES:											
5) Graphics										\$2,500	
6) Misc Expenses											
CADD		40		#Hours		\$35				\$1,400	
Materials				LS						\$500	
Reproduction				LS						\$500	
SUBTOTAL OTHER EXPENSES										\$4,900	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor											
Principal		0		Hours		\$0				\$0	
Supervisor		0		Hours		\$0				\$0	
Senior Architect/Engineer		0		Hours		\$0				\$0	
Architect/Engineer		0		Hours		\$0				\$0	
Technician / Drafter/CADD		0		Hours		\$0				\$0	
Secretary		0		Hours		\$0				\$0	
other		0		Hours		\$0				\$0	
labor subtotal										\$0	
b. Contracts				LS						\$0	
c. Transportation				LS						\$0	
d. Profit				10.0%						\$0	
9) Other Corps Payments (eg. 2544's)				WES						\$30,000	
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$30,000	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$150,045	
12) Contingency, Account 30.A.A.										5%	
13) TOTAL FOR OFFICE										\$157,547	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar FDM
OFFICE:	Hydraulic Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Diversion							
Hydraulic design		20	80	160			
Tower Features							
Design		20	80	200			
Hydraulic analysis		20	40	120			
Coordination			40	80			
Instrumentation							
Design and Quantities		5	20	100			
plate		0	0	20	40		
Coordination		0	10	40			
WES(in house support)		0	20	40			
Report							
Text		0	40	120			
Coordination and Meetings		20	40	120			
Review		20	40	40			
Site Visits		20	30	30			
General Design Conference			8	8			
	0	125	448	1078	40	0	0

	A/E LABOR ACTIVITY	HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

- \$30k for WES analysis and study

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Reservoir Regulation & Water Quality				DR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	28	Hours	\$44	\$1,232	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	200	Hours	\$34	\$6,800	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$8,032	
2) Tech Indirect (Est Rate:)		64.0%				\$5,140	
3) General Admin (Est Rate:)		27.0%				\$2,169	
TOTAL LABOR CHARGES						\$15,341	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
			Materials	LS		\$0	
			Reproduction	LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal		0	Hours	\$115	\$0	
	Supervisor		40	Hours	\$100	\$4,000	
	Senior Architect/Engineer		80	Hours	\$85	\$6,800	
	Architect/Engineer		240	Hours	\$61	\$14,640	
	Technician / Drafter/CADD		0	Hours	\$66	\$0	
	Secretary		0	Hours	\$29	\$0	
	other		0	Hours	\$0	\$0	
	labor subtotal					\$25,440	
b.	Materials (lab tests)	LS				\$12,000	
c.	Transportation	LS				\$0	
d.	Profit	10.0%				\$3,744	
9) Other Corps Payments (eg. 2544's)						\$20,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$61,184	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$76,525	
12) Contingency, Account 30.A.A.		20%				\$15,305	
13) TOTAL FOR OFFICE						\$91,830	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Reservoir Regulation & Water Quality						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
instream instrumentation coordination with USGS			8		60			
diversion plan water quality text			12		80			
water quality study S&A			8		60			
		0	28	0	200	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
water quality study, provide report			40	80	240			
A/E LABOR TOTALS		0	40	80	240	0	0	0
REMARKS		<p>- 1 A/E delivery orders under \$150K</p> <p>-does not include analysis of changes to Selective Withdrawal System</p> <p>-WES warer quality analysis \$20K</p>						
CEDM.XI.W								

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Hydrologic, Coastal & River				DN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	140	Hours	\$44	\$6,160	
	Architect/Engineer	12	184	Hours	\$37	\$6,808	
	Architect/Engineer	11	890	Hours	\$34	\$30,260	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$43,228	
2) Tech Indirect (Est Rate:)		64.0%				\$27,666	
3) General Admin (Est Rate:)		27.0%				\$11,672	
TOTAL LABOR CHARGES						\$82,565	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days		\$300	
	Govt Vehicle	4	600	# Miles	\$0.25	\$150	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$450	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		#Hours		\$0	
		0		LS	\$35	\$900	
				LS		\$0	
SUBTOTAL OTHER EXPENSES						\$900	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	0	Hours	\$0	\$0	
	Supervisor	0	0	Hours	\$0	\$0	
	Senior Architect/Engineer	0	0	Hours	\$0	\$0	
	Architect/Engineer	0	0	Hours	\$0	\$0	
	Technician / Drafter/CADD	0	0	Hours	\$0	\$0	
	Secretary	0	0	Hours	\$0	\$0	
	other	0	0	Hours	\$0	\$0	
	labor subtotal					\$0	
b. Materials				LS		\$0	
c. Transportation				LS		\$0	
d. Profit				10.0%		\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$83,915	
12) Contingency, Account 30.A.A.		10%				\$8,392	
13) TOTAL FOR OFFICE						\$92,307	

TASK WORKSHEET							
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM					
OFFICE:		Hydrologic, Coastal & River					
DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Coordination							
General				80			
Meetings (a 1 year duration)				30			
Flood Control Analysis of Diversion Scheme							
Coodination w/RCC (Modified Control)				20			
Flood Routings		20		160			
flood Frequency Analysis by month		20		160			
Conservation Analysis of Diversion Scheme							
Coordination w/RCC (Modified Conservation)				40			
Conservation Routings (Monthly flows)							
Model set up		10		80			
Routings/tabulate results		20		120			
Sedimentation analysis of diversion		20	120				
Site Visit		20	40	40			
Text		10	20	80			
Review		20		40			
Revise/Incorporate Comments			4	20			
Closeout files				20			
	0	140	184	890	0	0	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS	
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BUDGET WORKSHEET						9-Nov-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Geotechnical Engineering				CJ	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	140	Hours	\$52	\$7,280	
	STL	13	462	Hours	\$44	\$20,328	
	Geol/Engr-Scien	12	1168	Hours	\$37	\$43,216	
	Geol/Engr-Scien	11	192	Hours	\$34	\$6,528	
	Technician	7/9	216	Hours	\$26	\$5,616	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$82,968	
2) Tech Indirect (Est Rate:)		64.0%				\$53,100	
3) General Admin (Est Rate:)		27.0%				\$22,401	
TOTAL LABOR CHARGES						\$158,469	
TRAVEL:							
4) Travel & Transportation		Per Diem		8	# Days	\$75	\$600
		Govt Vehicle	3150	# Miles	\$0.25	\$788	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$1,388	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		216	#Hours	\$35	\$7,560
		Materials	1	LS		\$50	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$7,610	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$115	\$0		
	Supervisor	0	Hours	\$100	\$0		
	Senior Geol/Engr -Scien	95	Hours	\$85	\$8,075		
	Geol/Engr-Scien	0	Hours	\$61	\$0		
	Technician / Drafter/CADD	0	Hours	\$66	\$0		
	Secretary	0	Hours	\$29	\$0		
	other (survey)	0	Hours	\$0	\$15,000		
	labor subtotal					\$23,075	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		0.0%				\$0	
9) Review Panel for establishing ground motions						\$15,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$38,075	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$205,541	
12) Contingency, Account 30.A.A.		10%				\$20,554	
13) TOTAL FOR OFFICE						\$226,096	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Geotechnical Engineering						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
General Design Conference			8	8	8			
Preparation of SOW for D.O..		2	10					
Meetings & Coordination			64	160				
Review Existing Data			37	72				
Literature Search				40				
Define Material Properties			8	80				
Develop Stability of Embankment and slopes			8	80				
Design and Analysis		30	8	192				
Prepare FDM Text		30	100	120				
Prepare 4 FDM Drawings		30	17	64		216		
Calculate Quantities			2	16	24			
Aggregate Source Study			40	40				
Prepare Presentations			8	40				
Presentations & IPR		16	16	24				
Instrumentaiton Plan		2	8	40				
Interim Reviews/Revisions		30	68	152	128			
Response to Review Comments			24	16	8			
Site Visits -			32	16	16			
Review of VE Proposals			4	8	8			
Review new ground motions, establish criteria								
		140	462	1168	192	216	0	0

A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
Consultant Delivery Order (embankment during drawdown)				95				
See review panel on budget worksheet								
A/E LABOR TOTALS		0	0	95	0	0	0	0

REMARKS
-1 A/E delivery order under \$150K

CFDM.XLW

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Economics				ED	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	40	Hours	\$44	\$1,760	
	Architect/Engineer	12	192	Hours	\$37	\$7,104	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$8,864	
2) Tech Indirect (Est Rate:)			64.0%		\$5,673		
3) General Admin (Est Rate:)			27.0%		\$2,393		
TOTAL LABOR CHARGES						\$16,930	
TRAVEL:							
4) Travel & Transportation							
	Per Deim		# Days	\$75	\$0		
	Govt Vehicle		# Miles	\$0.25	\$0		
	Flight		#Trips	\$250	\$0		
	Auto Rental		#Times	\$35	\$0		
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses							
	CADD	0	#Hours	\$35	\$0		
	Materials		LS		\$0		
	Reproduction		LS		\$0		
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal				\$0		
b. Materials			LS		\$0		
c. Transportation			LS		\$0		
d. Profit		10.0%			\$0		
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$16,930	
12) Contingency, Account 30.A.A.						10% \$1,693	
13) TOTAL FOR OFFICE						\$18,623	

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Fish and Wildlife				EN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
Branch Chief 14		0	Hours	\$52		\$0	
Section Chief 13		18	Hours	\$44		\$792	
Architect/Engineer 12		240	Hours	\$37		\$8,880	
Architect/Engineer 11		0	Hours	\$34		\$0	
Technician 7/ 9		0	Hours	\$26		\$0	
Secretary 5/6		0	Hours	\$17		\$0	
other		0	Hours	\$12		\$0	
Subtotal In-House Direct Labor						\$9,672	
2) Tech Indirect (Est Rate:)		64.0%				\$6,190	
3) General Admin (Est Rate:)		27.0%				\$2,611	
TOTAL LABOR CHARGES						\$18,474	
TRAVEL:							
4) Travel & Transportation		Per Deim 5		# Days	\$75	\$375	
		Govt Vehicle 2000		# Miles	\$0.25	\$500	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$875	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD 0		#Hours	\$35	\$0	
		Materials		LS		\$0	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor Principal		0	Hours	\$0		\$0	
Supervisor		0	Hours	\$0		\$0	
Senior Architect/Engineer		0	Hours	\$0		\$0	
Architect/Engineer		0	Hours	\$0		\$0	
Technician / Drafter/CADD		0	Hours	\$0		\$0	
Secretary		0	Hours	\$0		\$0	
other		0	Hours	\$0		\$0	
labor subtotal						\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$19,349	
12) Contingency, Account 30.A.A.		10%				\$1,935	
13) TOTAL FOR OFFICE						\$21,283	

TASK WORKSHEET	
PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar FDM
OFFICE:	Fish and Wildlife

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar FDM
OFFICE:	Fish and Wildlife

TASK:	Cougar FDM
OFFICE:	Fish and Wildlife

OFFICE:	Fish and Wildlife
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	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	internal coordination meetings		4	40				
	agency coordination meetings		4	40				
	develop measures to reduce fish impacts		4	80				
	site visits		4	40				
	Cultural Resource Coordination		2	40				
		0	18	240	0	0	0	0

[illegible]

REMARKS
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BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Environmental Planning				EM	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	4	Hours	\$37	\$148	
	Architect/Engineer	11	88	Hours	\$34	\$2,992	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$3,140	
2) Tech Indirect (Est Rate:)		64.0%				\$2,010	
3) General Admin (Est Rate:)		27.0%				\$848	
TOTAL LABOR CHARGES						\$5,997	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
			Materials	LS		\$0	
			Reproduction	LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$5,997	
12) Contingency, Account 30.A.A.		50%				\$2,999	
13) TOTAL FOR OFFICE						\$8,996	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar FDM						
OFFICE:		Environmental Planning						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
review FDM					16			
attend meetings (design/material changes)					16			
advise if environmental documents are req'd				4	16			
prepare section 404					40			
		0	0	4	88	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								
<p>-additional funding would be required if additional documents are needed (high cont. %)</p>								

BUDGET WORKSHEET

26-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Cougar FDM

ORG CODE

OFFICE: Technical Resources Branch

CR

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	0 Hours	\$52	\$0
Section Chief	13	40 Hours	\$44	\$1,760
Architect/Engineer	12	0 Hours	\$37	\$0
Architect/Engineer	11	135 Hours	\$34	\$4,590
Technician	7/ 9	676 Hours	\$26	\$17,576
Secretary	5/6	40 Hours	\$17	\$680
Stay-In-School	3/4	100 Hours	\$12	\$1,200

Subtotal In-House Direct Labor

2) Tech Indirect (Est Rate:)

64.0%

3) General Admin (Est Rate:)

27.0%

TOTAL LABOR CHARGES

\$49,289

TRAVEL:

4) Travel & Transportation

Per Diem	0	# Days	\$75	\$0
Govt Vehicle	0	# Miles	\$0.25	\$0
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL

\$0

OTHER EXPENSES:

5) Graphics

\$0

6) Misc Expenses

CADD	0	#Hours	\$35	\$0
Materials		LS		\$0
Reproduction		LS		\$0

SUBTOTAL OTHER EXPENSES

\$0

CONTRACTS & OTHER COE:

8) A/E Contract Payments	Amount	Staff Average	\$ Amount
a. Labor			
Principal	0 Hours	\$0	\$0
Supervisor	0 Hours	\$0	\$0
Senior Architect/Engineer	0 Hours	\$0	\$0
Architect/Engineer	0 Hours	\$0	\$0
Technician / Drafter/CADD	0 Hours	\$0	\$0
Secretary	0 Hours	\$0	\$0
other	0 Hours	\$0	\$0
labor subtotal			\$0
b. Materials	LS		\$0
c. Transportation	LS		\$0
d. Profit	10.0%		\$0

9) Other Corps Payments (eg. 2544's)

10) Other Government Payments (eg. 1144's)

SUBTOTAL CONTRACTS & OTHER COE

\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.

\$49,289

12) Contingency, Account 30.A.A.

10%

\$4,929

13) TOTAL FOR OFFICE

\$54,218

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar FDM
OFFICE:	Technical Resources Branch

	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	3/4
	CR							
	5 A/E delivery orders		40		135	660	40	100
	CP							
	budget management					16		
	CQ							
		0	40	0	135	676	40	100

[illegible]

REMARKS

- 5 A/E delivery orders under \$150K each will be supported

BUDGET WORKSHEET						9-Nov-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM				ORG CODE	
OFFICE:		Real Estate				PU	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Division Ch.	13	16	Hours	\$42	\$672	
	Branch Ch.	12	100	Hours	\$36	\$3,550	
	Attorney	13	0	Hours	\$39	\$0	
			0	Hours	\$0	\$0	
	Technician	11	12	Hours	\$33	\$390	
	Secretary	5/6	12	Hours	\$17	\$198	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$4,810	
2) Tech Indirect (Est Rate:)		68.0%				\$3,271	
3) General Admin (Est Rate:)		18.0%				\$866	
TOTAL LABOR CHARGES						\$8,947	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle	400	# Miles	\$0.25		\$100	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$100	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			\$0
		Reproduction		LS			\$55
SUBTOTAL OTHER EXPENSES						\$55	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$9,102	
12) Contingency, Account 30.A.A.		10%				\$910	
13) TOTAL FOR OFFICE						\$10,012	

TASK WORKSHEET							
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar FDM					
OFFICE:		Real Estate					
DIRECT LABOR ACTIVITY	HOURS						
	13	12	13		11	5/6	other
Develop Real Estate section	16	100			12	12	
-write text							
-delineate construction right-of-way							
	16	100	0	0	12	12	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

CEDM XLW

BASELINE SCOPE OF WORK

PROJECT: Cougar Temperature Control		DATE PREPARED: 8/29/94	
SUBPRODUCT TITLE: Plans and Specifications		SUBPRODUCT #/WBS ID: WTCCLW	
TECHNICAL MANAGER: Karl Swanson	OFFICE/OBS: NPP-PE-DS	PROJECT/STUDY MANAGER: Doug Clarke	OFFICE/OBS: NPP-PM

SUBPRODUCT SUMMARY DESCRIPTION: (see attached)

- PMP Worksheet (summary, total cost by office)
- Specific product outline (plates, text, drawings, specifications)
- Individual office Budget and Task Worksheets

UPWARD REPORTED MILESTONES	%	DATE	OMP	INTERNAL MILESTONES	%	DATE	COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
CONSTRUCTION COST								
	CONTINGENCY TOTAL CONSTR. COST							
BASELINE ALLOCATION *								
	CONTINGENC							
	TOTAL ESTIMATE							

Submitted:		Approved:	
_____ (Technical Manager)	_____ (Date)	_____ (Project/Study Manager)	_____ (Date)

PMP WORKSHEET								
PROJECT: Willamette River Temperature Control Feasibility Study								
LEAD: CENPP-PE-DS Swanson								
TASK: Cougar Plans and Specifications								
Organization	Office Symbol	Org Code	COSTS					
			Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$27,091	\$200	\$250	\$40,700	\$6,824	\$75,066
Design Branch	PE-D	DB	\$12,957	\$0	\$0	\$0	\$1,296	\$14,253
Civil/Land. Design	PE-DC	DC	\$43,315	\$250	\$7,000	\$0	\$10,113	\$60,678
Electrical Design	PE-DE	DD	\$65,364	\$350	\$14,460	\$0	\$16,035	\$96,209
Mechanical Design	PE-DM	DF	\$43,132	\$75	\$6,600	\$0	\$4,981	\$54,787
Struct/Arch Des.	PE-DS	DG	\$110,413	\$400	\$38,760	\$245,780	\$39,535	\$434,888
H & H Branch	PE-H	DK	\$3,958	\$0	\$0	\$0	\$396	\$4,353
Hydraul. Design	PE-HD	DL	\$55,245	\$475	\$3,200	\$0	\$2,946	\$61,866
Res. Regulation	PE-HR	DR	\$0	\$0	\$0	\$0	\$0	\$0
Hydrology	PE-HY	DN	\$0	\$0	\$0	\$0	\$0	\$0
Geotech Branch	PE-G	CJ	\$140,950	\$900	\$9,290	\$5,060	\$15,620	\$171,820
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$0	\$0
Fish & Wldlf	PE-RR	EN	\$18,764	\$300	\$0	\$0	\$1,906	\$20,970
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$0	\$0
Tech. Branch	PE-T		\$33,486	\$0	\$5,000	\$0	\$3,849	\$42,335
Project	OP-V	JB	\$1,500	\$0	\$0	\$0	\$0	\$1,500
Real Estate	RE-AP	BU	\$17,982	\$200	\$18	\$0	\$1,800	\$20,000
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Contract Procurement	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$7,000	\$0	\$0	\$0	\$0	\$7,000
TOTALS			\$589,158	\$3,150	\$84,578	\$291,540	\$105,300	\$1,073,726

COUGAR P&S SCOPE OF WORK

- DRAWINGS

1	DS Cover
2	DS Index and Notes
3	DC Site Map
4	G Excavation Plan
5	G Excavation Sections I
6	G Excavation Sections II
7	G Tunnel Chamber Excavation
8	G Tunnel Chamber Support
9	DC Tunnel Outlet
10	DC Roads and Traffic Control
11	DC Diversion and Water Control
12	DC Grading Plan
13	DS Intake Structure General
14	DS Concrete and Reinforcement Notes
15	DS Demolition I
16	DS Demolition II
17	DS Plan and Elevations
18	DS Sections I
19	DS Sections II
20	DS Deck Plan
21	DS RO Trashrack
22	DS Reinforcement Plan and Elevations
23	DS Reinforcement Sections I
24	DS Reinforcement Sections II
25	DS Reinforcement Deck Plan
26	DS Reinforcement RO Trashrack
27	DS Misc. Metal
28	DS Structural Steel - Diversion Trashrack
29	DS Structural Steel - Penstock Trashrack
30	DS Structural Steel - Wetwell Trashrack
31	DS Structural Steel - Floating Trashracks I
32	DS Structural Steel - Floating Trashracks II
33	DM Equipment Plan
34	DM Temperature Control Gates
35	DM Bypass Gates
36	DM Fuse Panel
37	HD Instrumentation
38	G Geotechnical Instrumentation
39	DE One-Line Diagram
40	DE Control Schematics I
41	DE Control Schematics II
42	DE Motor Control Center
43	DE Plans I
44	DE Plans II
45	DE Elevations I
46	DE Elevations II
47	DE Sections and Details I
48	DE Sections and Details II
49	DE Conduit and Cable Schedule
50	HD Project Characteristics
51	HD Project Hydrographs

COUGAR P&S SCOPE OF WORK cont...

SPECIFICATIONS

Bidding Requirements, Contract Forms, Conditions

00010 T Solicitation

00100 T Instructions to Bidders

00700 T Contract Clauses

00750 T Rates of Wages

00800 T Special Clauses

DIVISION I - GENERAL REQUIREMENTS

01200 T General Requirements

01230 T Safety

01300 DS Measurement and Payment

01301 T Sources for Reference Publications

01302 T Submittal Descriptions

01305 T Submittal Procedures

01400 DC Contractors Operations

01430 DC Environmental Protection

01440 T Contractor Quality Control

01500 T Quality Assurance

DIVISION 2 - SITE WORK

02100 DC Roadways

02130 DC Care and Diversion of Water

02150 DC Paving and Leveling

02200 G Excavation

02250 G Foundation Treatment

02271 DC Stone Slope Protection

02300 DS Demolition

02400 G Tunneling and Support

02900 G Geotechnical Instrumentation

DIVISION 3 - CONCRETE

03100 G Formwork for Concrete

03200 G Concrete Reinforcement

03250 G Waterstops and Joints in Concrete

03300 G Concrete

DIVISION 5 - METALS

05120 DS Structural Steel and Misc. Metal

05500 DS Metalwork Fabrication and Machine Work

DIVISION 9 - FINISHES

09940 DS Painting

DIVISION 13 - SPECIAL CONSTRUCTION

13080 DM Seismic Protection for Mechanical and Electrical
DE Equipment

13220 HD Instrumentation

DIVISION 15 - MECHANICAL

15095 DM Sluice Gates and Operators

15099 DM Fuse Panel

DIVISION 16 - ELECTRICAL

16050 DE General

16500 DE Lighting

16920 DE Motor Control Centers

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	40	Hours	\$48	\$1,920	
	Cost Engineer	12	292	Hours	\$42	\$12,264	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$14,184	
2) Tech Indirect (Est Rate:)				64.0%		\$9,078	
3) General Admin (Est Rate:)				27.0%		\$3,830	
TOTAL LABOR CHARGES						\$27,091	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	200	# Miles		\$0.25	\$50	
	Flight		#Trips		\$250	\$0	
	Auto Rental		#Times		\$35	\$0	
SUBTOTAL TRAVEL						\$200	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$50	
		Reproduction		LS		\$200	
SUBTOTAL OTHER EXPENSES						\$250	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	32	Hours		\$80	\$2,560	
	Project Manager	0	Hours		\$72	\$0	
	Senior Cost Engineer	280	Hours		\$65	\$18,200	
	Cost Engineer	240	Hours		\$53	\$12,720	
	Junior Cost Engineer	0	Hours		\$36	\$0	
	Engineering Tech	40	Hours		\$31	\$1,240	
	Secretary	40	Hours		\$27	\$1,080	
	labor subtotal					\$35,800	
b. Materials		LS				\$200	
c. Transportation		LS				\$1,000	
d. Profit		10.0%				\$3,700	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$40,700	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$68,241	
12) Contingency, Account 30.A.A.				10%		\$6,824	
13) TOTAL FOR OFFICE						\$75,066	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar Plans and Specifications
OFFICE:	Cost Engineering Branch

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Review		8					
Coordination		8					
Meetings		8					
A/E D.O. prepare/estimate/negotiate		8	40				
A/E D.O. coordinate/review		8	40				
Review Advertized Contract Plans & Specs			32				
Site visit			16				
MCACES			140				
Finalize Government Cost Estimate			24				
	0	40	292	0	0	0	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	PM	Sr CE	CE	Jr CE	Tech	Secr
Management	8						40
Review	8						
Coordination	8						
Meetings			8	8			
Review Plans & Specs & Check Quantities			24	24		40	
Site Visit			16	16			
Construction Methods & Narratives			24	24			
Labor Wage Rate Updates				8			
Crews			32	24			
MCACES & Documentation of Costs			160	120			
Review, Check, & Provide Cost Backup Data	8		16	16			
A/E LABOR TOTALS	32	0	280	240	0	40	40

REMARKS

- 1 A/E delivery order under \$150K

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	120	Hours	\$52	\$6,240	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	32	Hours	\$17	\$544	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$6,784	
2) Tech Indirect (Est Rate:)		64.0%				\$4,342	
3) General Admin (Est Rate:)		27.0%				\$1,832	
TOTAL LABOR CHARGES						\$12,957	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials			LS		
		Reproduction			LS		
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	0	Hours	\$0	\$0	
	Supervisor	0	0	Hours	\$0	\$0	
	Senior Architect/Engineer	0	0	Hours	\$0	\$0	
	Architect/Engineer	0	0	Hours	\$0	\$0	
	Technician / Drafter/CADD	0	0	Hours	\$0	\$0	
	Secretary	0	0	Hours	\$0	\$0	
	other	0	0	Hours	\$0	\$0	
	labor subtotal					\$0	
b. Materials				LS			
c. Transportation				LS			
d. Profit				10.0%		\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$12,957	
12) Contingency, Account 30.A.A.		10%				\$1,296	
13) TOTAL FOR OFFICE						\$14,253	

BUDGET WORKSHEET

26-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY

TASK: Cougar Plans and Specifications

ORG CODE

OFFICE: Civil and Environmental Design

DC

DIRECT CHARGES:

1) a. Labor		Amount		Staff Average	\$ Amount
Branch Chief	14	0	Hours	\$52	\$0
Section Chief	13	40	Hours	\$44	\$1,760
Architect/Engineer	12	184	Hours	\$37	\$6,808
Architect/Engineer	11	192	Hours	\$34	\$6,528
Technician	7/ 9	272	Hours	\$26	\$7,072
Secretary	5/6	30	Hours	\$17	\$510
other		0	Hours	\$12	\$0
Subtotal In-House Direct Labor					\$22,678
2) Tech Indirect (Est Rate:)		64.0%			\$14,514
3) General Admin (Est Rate:)		27.0%			\$6,123
TOTAL LABOR CHARGES					\$43,315

TRAVEL:

4) Travel & Transportation					
	Per Deim		# Days	\$75	\$0
	Govt Vehicle	1000	# Miles	\$0.25	\$250
	Flight		#Trips	\$250	\$0
	Auto Rental		#Times	\$35	\$0
SUBTOTAL TRAVEL					\$250

OTHER EXPENSES:

5) Graphics					
6) Misc Expenses					
	CADD	200	#Hours	\$35	\$7,000
	Materials		LS		
	Reproduction		LS		
SUBTOTAL OTHER EXPENSES					\$7,000

CONTRACTS & OTHER COE:

8) A/E Contract Payments		Amount		Staff Average	\$ Amount
a. Labor	Principal	0	Hours	\$0	\$0
	Supervisor	0	Hours	\$0	\$0
	Senior Architect/Engineer	0	Hours	\$0	\$0
	Architect/Engineer	0	Hours	\$0	\$0
	Technician / Drafter/CADD	0	Hours	\$0	\$0
	Secretary	0	Hours	\$0	\$0
	other	0	Hours	\$0	\$0
	labor subtotal				\$0
b. Materials			LS		
c. Transportation			LS		
d. Profit		10.0%			\$0
9) Other Corps Payments (eg. 2544's)					
10) Other Government Payments (eg. 1144's)					
SUBTOTAL CONTRACTS & OTHER COE					\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.					\$50,565
12) Contingency, Account 30.A.A.		20%			\$10,113
13) TOTAL FOR OFFICE					\$60,678

TASK WORKSHEET							
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications					
OFFICE:		Civil and Environmental Design					
DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Preparation of the following specifications							
sections:							
-Contractors Operations		2	24	40		2	
-Environmental Protection		2	40			2	
-HTW and Solid Waste Mangmt		2	40			2	
-Roadways		1		40		2	
-Riprap		2		24		2	
-Paving: Base & Leveling Coarse		1		24		2	
Contract Review							
30% Submittal		4	8	8	4	2	
60% Submittal		4	8	8	4	2	
90% Submittal		8	24	24	12	2	
BCOP		8	24	24	12	2	
meetings			16				
Quantity Computations		1			40	2	
Assume 5 Plates		5			200	8	
	0	40	184	192	272	30	0
A/E LABOR ACTIVITY							
A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							
<p>- site visit labor included in the above</p>							

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Electrical Design				DD	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	45	Hours	\$44	\$1,980	
	Architect/Engineer	12	198	Hours	\$37	\$7,326	
	Architect/Engineer	11	418	Hours	\$34	\$14,212	
	Technician	7/ 9	396	Hours	\$26	\$10,296	
	Secretary	5/6	24	Hours	\$17	\$408	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$34,222	
2) Tech Indirect (Est Rate:)				64.0%	\$21,902		
3) General Admin (Est Rate:)				27.0%	\$9,240		
TOTAL LABOR CHARGES						\$65,364	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	800	# Miles		\$0.25	\$200	
	Flight		#Trips		\$250	\$0	
	Auto Rental		#Times		\$35	\$0	
SUBTOTAL TRAVEL						\$350	
OTHER EXPENSES:							
5) Graphics						\$250	
6) Misc Expenses		CADD		396	#Hours	\$35	\$13,860
			Materials	LS		\$100	
			Reproduction	LS		\$250	
SUBTOTAL OTHER EXPENSES						\$14,460	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%		\$0			
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$80,174	
12) Contingency, Account 30.A.A.		20%		\$16,035			
13) TOTAL FOR OFFICE						\$96,209	

TASK WORKSHEET

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK: Cougar Plans and Specifications
OFFICE: Electrical Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Review		16	24	16		8	
Coordination and Meetings		16	48	24			
Site Visits			8	24			
Research Existing MCC			8	16			
Load Analysis			2	8			
Short-Circuit Analysis			4	16			
Main Feeder Design			2	4			
Branch Circuit Design			4	8			
Motor Control Center Design			8	24			
Lighting Calculations			2	6			
Prepare Drawings							
One-Line (1)		1	6	16	32		
3 Control Schematics (2)		2	8	32	72		
Motor Control Center (1)		1	8	32	48		
Plan Views (2)		2	12	48	80		
Elevations (2)		2	8	40	80		
Sections and Details (2)		2	4	16	60		
Conduit and Cable Schedule (1)		1	4	8	24		
Prepare Specifications							
Section 16050 General		1	8	16		4	
Section 16500 Lighting			4	8		4	
Section 16920 Motor Control Centers		1	8	24		4	
Estimate Quantities			2	8			
Coordination with OP-V			8	24		2	
ECIFP			8			2	
	0	45	198	418	396	24	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Mechanical Design				DF	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	21	Hours	\$44	\$924	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	628	Hours	\$34	\$21,352	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	18	Hours	\$17	\$306	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$22,582	
2) Tech Indirect (Est Rate:)		64.0%				\$14,452	
3) General Admin (Est Rate:)		27.0%				\$6,097	
TOTAL LABOR CHARGES						\$43,132	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle	300	# Miles	\$0.25		\$75	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$75	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		160	#Hours	\$35	\$5,600
		Materials		LS			\$500
		Reproduction		LS			\$500
SUBTOTAL OTHER EXPENSES						\$6,600	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$49,807	
12) Contingency, Account 30.A.A.		10%				\$4,981	
13) TOTAL FOR OFFICE						\$54,787	

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar Plans and Specifications
OFFICE:	Mechanical Design

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BUDGET WORKSHEET

29-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY

TASK: Cougar Plans and Specifications

ORG CODE

OFFICE: Structural and Architectural Design

DG

DIRECT CHARGES:

1) a. Labor		Amount		Staff Average	\$ Amount
Branch Chief	14	0	Hours	\$52	\$0
Section Chief	13	203	Hours	\$44	\$8,932
Architect/Engineer	12	860	Hours	\$37	\$31,820
Architect/Engineer	11	328	Hours	\$34	\$11,152
Technician	7/ 9	180	Hours	\$26	\$4,680
Secretary	5/6	72	Hours	\$17	\$1,224
other		0	Hours	\$12	\$0
Subtotal In-House Direct Labor					\$57,808
2) Tech Indirect (Est Rate:)		64.0%			\$36,997
3) General Admin (Est Rate:)		27.0%			\$15,608
TOTAL LABOR CHARGES					\$110,413

TRAVEL:

4) Travel & Transportation					
Per Deim	4	# Days	\$75	\$300	
Govt Vehicle	400	# Miles	\$0.25	\$100	
Flight		#Trips	\$250	\$0	
Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL				\$400	

OTHER EXPENSES:

5) Graphics					\$9,000
6) Misc Expenses					
	CADD	136	#Hours	\$35	\$4,760
	Materials		LS		\$5,000
	Reproduction		LS		\$20,000
SUBTOTAL OTHER EXPENSES					\$38,760

CONTRACTS & OTHER COE:

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor	Principal	4 Hours	\$115	\$460
	Supervisor	80 Hours	\$100	\$8,000
	Senior Architect/Engineer	396 Hours	\$85	\$33,660
	Architect/Engineer	1912 Hours	\$61	\$116,632
	Technician / Drafter/CADD	920 Hours	\$66	\$60,720
	Secretary	16 Hours	\$29	\$464
	other	0 Hours	\$0	\$0
	labor subtotal			\$219,936
b. Materials		LS		\$2,500
c. Transportation		LS		\$1,000
d. Profit		10.0%		\$22,344
9) Other Corps Payments (eg. 2544's)				
10) Other Government Payments (eg. 1144's)				
SUBTOTAL CONTRACTS & OTHER COE				\$245,780

SUMMARY

11) Total Estimated Cost for Account 30.A.			\$395,353
12) Contingency, Account 30.A.A.	10%		\$39,535
13) TOTAL FOR OFFICE			\$434,888

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar Plans and Specifications						
OFFICE:		Structural and Architectural Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
review			96	80	24	24		
coordination, TM				336	120	96	24	
meetings			48	40	40	8		
A/E D.O. prepare/estimate/negotiate			16	96		4	8	
A/E D.O. coordinate/review			19	96	80	40	8	
agency corespondance/presentations			8	60			8	
site visit			8	32	16	8		
contractor questions, assemble notebooks					24		16	
operations coordination				96				
Engineer Considerations and Instructions for F. P.			8	24	24		8	
		0	203	860	328	180	72	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
management		4	16				16	
review			16					
coordination			16					
meetings			16	32	32			
5 specification sections				40	160			
detailed design and analysis				128	1050			
steel design details				40	240			
water control /diversion plan				24	80			
construction schedule				16	64			
prepare 23 CADD drawings				92	230	920		
calculate quantities				8	40			
site visit			16	16	16			
A/E LABOR TOTALS		4	80	396	1912	920	16	0
REMARKS								
<p>- 2 A/E delivery orders under \$150k each will be used</p>								
CPS.XLW								

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		H & H Branch				DK	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	32	Hours	\$52	\$1,664	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	24	Hours	\$17	\$408	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$2,072	
2) Tech Indirect (Est Rate:)		64.0%				\$1,326	
3) General Admin (Est Rate:)		27.0%				\$559	
TOTAL LABOR CHARGES						\$3,958	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials			LS		
		Reproduction			LS		
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$3,958	
12) Contingency, Account 30.A.A.		10%				\$396	
13) TOTAL FOR OFFICE						\$4,353	

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar P&S				ORG CODE	
OFFICE:		Hydraulic Design				DL	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	48	Hours	\$44	\$2,112	
	Architect/Engineer	12	220	Hours	\$37	\$8,140	
	Architect/Engineer	11	468	Hours	\$34	\$15,912	
	Technician	7/ 9	80	Hours	\$26	\$2,080	
	Secretary	5/6	40	Hours	\$17	\$680	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$28,924	
2) Tech Indirect (Est Rate:)		64.0%				\$18,511	
3) General Admin (Est Rate:)		27.0%				\$7,809	
TOTAL LABOR CHARGES						\$55,245	
TRAVEL:							
4) Travel & Transportation		Per Deim		5	# Days	\$75	\$375
	Govt Vehicle	400	# Miles	\$0.25		\$100	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$475	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses							
	CADD	80	#Hours	\$35		\$2,800	
	Materials		LS			\$200	
	Reproduction		LS			\$200	
SUBTOTAL OTHER EXPENSES						\$3,200	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)		\$0					
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$58,920					
12) Contingency, Account 30.A.A.		5%				\$2,946	
13) TOTAL FOR OFFICE						\$61,866	

[illegible]

BUDGET WORKSHEET

26-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Cougar Plans and Specifications

ORG CODE

OFFICE: Geotechnical Engineering

CJ

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	116 Hours	\$52	\$6,032
STL	13	356 Hours	\$44	\$15,664
Geol/Engr-Scien	12	694 Hours	\$37	\$25,678
Geol/Engr-Scien	11	536 Hours	\$34	\$18,224
Technician	7/9	280 Hours	\$26	\$7,280
Secretary	5/6	54 Hours	\$17	\$918
other		0 Hours	\$12	\$0

Subtotal In-House Direct Labor**\$73,796**

2) Tech Indirect (Est Rate:)

64.0%

\$47,229

3) General Admin (Est Rate:)

27.0%

\$19,925

TOTAL LABOR CHARGES**\$140,950****TRAVEL:**

4) Travel & Transportation

Per Diem	4	# Days	\$75	\$300
Govt Vehicle	2400	# Miles	\$0.25	\$600
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL**\$900****OTHER EXPENSES:**

5) Graphics

6) Misc Expenses

CADD	264	#Hours	\$35	\$9,240
Materials	1	LS		\$50
Reproduction		LS		

SUBTOTAL OTHER EXPENSES**\$9,290****CONTRACTS & OTHER COE:**

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor	Principal	40 Hours	\$115	\$4,600
	Supervisor	0 Hours	\$100	\$0
	Senior Geol/Engr-Scien	0 Hours	\$85	\$0
	Geol/Engr-Scien	0 Hours	\$61	\$0
	Technician / Drafter/CADD	0 Hours	\$66	\$0
	Secretary	0 Hours	\$29	\$0
	other	0 Hours	\$0	\$0
	labor subtotal			\$4,600
b. Materials		LS		
c. Transportation		LS		
d. Profit		10.0%		\$460

9) Other Corps Payments (eg. 2544's)

10) Other Government Payments (eg. 1144's)

SUBTOTAL CONTRACTS & OTHER COE**\$5,060****SUMMARY**

11) Total Estimated Cost for Account 30.A.

\$156,200

12) Contingency, Account 30.A.A.

10%

\$15,620**13) TOTAL FOR OFFICE****\$171,820**

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar Plans and Specifications						
OFFICE:		Geotechnical Engineering						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Preparation of SOW for D.O			2	2				
Meetings & Coordination		24	64	160	24		6	
Review Existing Data			5	8				
Design and Analysis		4	8	48	240			
Preparation for IPR				8		16	8	
IPR Presentation		2	4	4				
Prepare 7 Specifications		28	104	184	72		40	
Prepare 6 Contract Drawings		12	4	80	60	264		
Calculate Quantities			5	16	24			
Interim Reviews/Revisions		34	88	128	68			
Site Visits			24	16	16			
ECIFP		8	24	24	24			
Review Constr. Schedule		4	8					
Response to Review Comments			16	16	8			
		116	356	694	536	280	54	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
Slope Stability Review		40						
A/E LABOR TOTALS		40	0	0	0	0	0	0
REMARKS		<p>- 1 A/E delivery order under \$150K</p>						
		CPS XLW						

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Fish and Wildlife				EN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	8	Hours	\$44	\$352	
	Architect/Engineer	12	256	Hours	\$37	\$9,472	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$9,824	
2) Tech Indirect (Est Rate:)		64.0%				\$6,287	
3) General Admin (Est Rate:)		27.0%				\$2,652	
TOTAL LABOR CHARGES						\$18,764	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	600	# Miles	\$0.25		\$150	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$300	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$19,064	
12) Contingency, Account 30.A.A.		10%				\$1,906	
13) TOTAL FOR OFFICE						\$20,970	

[illegible]

Monitoring costs of \$70K, curation costs of \$8K, and mitigation costs of \$75K included in BCE.

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar Plans and Specifications				ORG CODE	
OFFICE:		Technical Resources Branch				CR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	24	Hours	\$44	\$1,056	
	Architect/Engineer	12	38	Hours	\$37	\$1,406	
	Architect/Engineer	11	81	Hours	\$34	\$2,754	
	Technician	7/ 9	412	Hours	\$26	\$10,712	
	Secretary	5/6	52	Hours	\$17	\$884	
	Stay-In-School	3/4	60	Hours	\$12	\$720	
Subtotal In-House Direct Labor						\$17,532	
2) Tech Indirect (Est Rate:)		64.0%				\$11,220	
3) General Admin (Est Rate:)		27.0%				\$4,734	
TOTAL LABOR CHARGES						\$33,486	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
			Materials		LS	\$0	
			Reproduction		LS	\$5,000	
SUBTOTAL OTHER EXPENSES						\$5,000	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal		0	Hours	\$0	\$0	
	Supervisor		0	Hours	\$0	\$0	
	Senior Architect/Engineer		0	Hours	\$0	\$0	
	Architect/Engineer		0	Hours	\$0	\$0	
	Technician / Drafter/CADD		0	Hours	\$0	\$0	
	Secretary		0	Hours	\$0	\$0	
	other		0	Hours	\$0	\$0	
	labor subtotal					\$0	
b. Materials				LS		\$0	
c. Transportation				LS		\$0	
d. Profit				10.0%		\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$38,486	
12) Contingency, Account 30.A.A.				10%		\$3,849	
13) TOTAL FOR OFFICE						\$42,335	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar Plans and Specifications						
OFFICE:		Technical Resources Branch						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
	CR							
	3 A/E delivery orders		24		81	396	24	60
	CQ							
	BCOP (see also PE-D, CT, CO)			30			28	
	CP							
	BCOP (VE)			8				
	budget management					16		
		0	24	38	81	412	52	60
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								
<p>- 3 A/E delivery orders under \$150K each will be supported</p>								

BUDGET WORKSHEET							9-Nov-94
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar P&S				ORG CODE	
OFFICE:		Real Estate				BU	
DIRECT CHARGES:							
1) a. Labor		Amount	Staff Average	\$ Amount			
	DivisionCh.	13	26 Hours	\$42	\$1,092		
	Branch Ch.	12	100 Hours	\$36	\$3,550		
	Attorney	13	100 Hours	\$39	\$3,850		
			Hours	\$0	\$0		
	Technician	11	24 Hours	\$33	\$780		
	Secretary	5/6	24 Hours	\$17	\$396		
	other		0 Hours	\$0	\$0		
Subtotal In-House Direct Labor					\$9,668		
2) Tech Indirect (Est Rate:)		68.0%			\$6,574		
3) General Admin (Est Rate:)		18.0%			\$1,740		
TOTAL LABOR CHARGES					\$17,982		
TRAVEL:							
4) Travel & Transportation		Per Deim	0 # Days	\$75	\$0		
		Govt Vehicle	800 # Miles	\$0.25	\$200		
		Flight	#Trips	\$250	\$0		
		Auto Rental	#Times	\$35	\$0		
SUBTOTAL TRAVEL					\$200		
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD	0 #Hours	\$35	\$0		
		Materials	LS		\$0		
		Reproduction	LS		\$18		
SUBTOTAL OTHER EXPENSES					\$18		
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount	Staff Average	\$ Amount			
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal				\$0		
b. Materials		LS			\$0		
c. Transportation		LS			\$0		
d. Profit		10.0%			\$0		
9) Other Corps Payments (eg. 2544's)		\$0					
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE					\$0		
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$18,200					
12) Contingency, Account 30.A.A.		10%			\$1,800		
13) TOTAL FOR OFFICE					\$20,000		

TASK WORKSHEET								
PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY							
TASK:	Cougar P&S							
OFFICE:	Real Estate							
DIRECT LABOR ACTIVITY	HOURS							
Negotiate and develop MOU with Forest Service	13	12	13		11	5/6	other	
	26	100	100		24	24		
	26	100	100	0	24	24		0
A/E LABOR ACTIVITY	HOURS							
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other	
A/E LABOR TOTALS								
	0	0	0	0	0	0		0
REMARKS								

BASELINE SCOPE OF WORK									
PROJECT: Cougar Temperature Control						DATE PREPARED: 8/29/94			
SUBPRODUCT TITLE: Engineering During Construction						SUBPRODUCT #/WBS ID: WTCCN1			
TECHNICAL MANAGER: Karl Swanson		OFFICE/OBS: NPP-PE-DS		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM			
SUBPRODUCT SUMMARY DESCRIPTION: (see attached)									
<p>- PMP Worksheet (summary, total cost by office)</p> <p>- Specific product outline (plates, text, drawings, specifications) N/A</p> <p>- Individual office Budget and Task Worksheets</p>									
UPWARD REPORTED MILESTONES			% DATE OMP	INTERNAL MILESTONES			% DATE COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____ _____	
			FY98	FY99	FY00	FY01	FY02	TOTAL	
CONSTRUCTION COST			CONTINGENCY						
			TOTAL CONSTR. COST						
			0.2	0.3	0.2	0.2	0.1		
BASELINE ALLOCATION *			124	186	124	124	62	619	
			CONTINGENC						88
			TOTAL ESTIMATE						707
Submitted:					Approved:				
(Technical Manager)			(Date)		(Project/Study Manager)			(Date)	

A.3

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS

Swenson

TASK: Cougar Engineering During Construction

Organization	Office Symbol	Org Code	COSTS					Total
			Labor	Travel	Other	Contracts	Contingency	
Cost Engr Branch	PE-C	CE	\$22,003	\$400	\$150	\$0	\$2,255	\$24,809
Design Branch	PE-D	DB	\$10,834	\$0	\$0	\$0	\$1,083	\$11,917
Civil/Land. Design	PE-DC	DC	\$21,881	\$125	\$1,680	\$0	\$4,737	\$28,423
Electrical Design	PE-DE	DD	\$31,821	\$2,350	\$2,280	\$0	\$7,290	\$43,741
Mechanical Design	PE-DM	DF	\$6,066	\$150	\$1,560	\$0	\$778	\$8,554
Struct/Arch Des.	PE-DS	DG	\$146,180	\$2,000	\$18,075	\$0	\$33,251	\$199,506
H & H Branch	PE-H	DK	\$8,450	\$0	\$0	\$0	\$845	\$9,295
Hydraul. Design	PE-HD	DL	\$37,933	\$2,375	\$0	\$0	\$2,015	\$42,323
Res. Regulation	PE-HR	DR	\$17,618	\$0	\$500	\$0	\$3,624	\$21,741
Hydrology	PE-HY	DN	\$33,830	\$150	\$200	\$0	\$6,836	\$41,016
Geotech Branch	PE-G	CJ	\$149,064	\$8,975	\$3,550	\$0	\$16,159	\$177,748
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$0	\$0
Fish & Wldlf	PE-RR	EN	\$61,915	\$6,000	\$0	\$10,000	\$7,791	\$85,706
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$0	\$0
Tech. Branch	PE-T		\$1,497	\$0	\$500	\$0	\$200	\$2,197
Project	OP-V	JB	\$0	\$0	\$0	\$0	\$0	\$0
Real Estate	RE-AP	BU	\$8,575	\$200	\$25	\$0	\$1,200	\$10,000
Contract Admin	CT-C	NG	\$0	\$0	\$0	\$0	\$0	\$0
Contract Procurement	CT-P	ND	\$0	\$0	\$0	\$0	\$0	\$0
Construction	CO-SC	FE	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS			\$557,665	\$22,725	\$28,520	\$10,000	\$88,065	\$706,975

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	72	Hours	\$48	\$3,456	
	Cost Engineer	12	192	Hours	\$42	\$8,064	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$11,520	
2) Tech Indirect (Est Rate:)		64.0%				\$7,373	
3) General Admin (Est Rate:)		27.0%				\$3,110	
TOTAL LABOR CHARGES						\$22,003	
TRAVEL:							
4) Travel & Transportation		Per Deim		4	# Days	\$75	\$300
	Govt Vehicle	400	# Miles	\$0.25		\$100	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$400	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$50	
		Reproduction		LS		\$100	
SUBTOTAL OTHER EXPENSES						\$150	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Project Manager	0	Hours	\$0		\$0	
	Senior Cost Engineer	0	Hours	\$0		\$0	
	Cost Engineer	0	Hours	\$0		\$0	
	Junior Cost Engineer	0	Hours	\$0		\$0	
	Engineering Tech	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	labor subtotal	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$22,553	
12) Contingency, Account 30.A.A.		10%				\$2,255	
13) TOTAL FOR OFFICE						\$24,809	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Cost Engineering Branch						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Review			16					
Coordination			16					
Contract Modifications Plans & Spec			16	24				
MCACES Costs				40				
Labor, Equipment & Material Costs				32				
Contract Mod/Claim Impact CO support				32				
Construction Site Inspection(s)			16	32				
Support to Construction Division			8	32				
		0	72	192	0	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	PM	Sr CE	CE	Jr CE	Tech	Sec
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

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BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	96	Hours	\$52	\$4,992	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	40	Hours	\$17	\$680	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$5,672	
2) Tech Indirect (Est Rate:)		64.0%				\$3,630	
3) General Admin (Est Rate:)		27.0%				\$1,531	
TOTAL LABOR CHARGES						\$10,834	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$10,834	
12) Contingency, Account 30.A.A.		10%				\$1,083	
13) TOTAL FOR OFFICE						\$11,917	

BUDGET WORKSHEET										29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Cougar EDC								ORG CODE	
OFFICE:		Civil and Environmental Design								DC	
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief	14	0	Hours	\$52					\$0
		Section Chief	13	32	Hours	\$44					\$1,408
		Architect/Engineer	12	120	Hours	\$37					\$4,440
		Architect/Engineer	11	104	Hours	\$34					\$3,536
		Technician	7/ 9	64	Hours	\$26					\$1,664
		Secretary	5/6	24	Hours	\$17					\$408
		other		0	Hours	\$12					\$0
Subtotal In-House Direct Labor										\$11,456	
2) Tech Indirect (Est Rate:)				64.0%						\$7,332	
3) General Admin (Est Rate:)				27.0%						\$3,093	
TOTAL LABOR CHARGES										\$21,881	
TRAVEL:											
4) Travel & Transportation											
		Per Deim		# Days	\$75						\$0
		Govt Vehicle	500	# Miles	\$0.25						\$125
		Flight		#Trips	\$250						\$0
		Auto Rental		#Times	\$35						\$0
SUBTOTAL TRAVEL										\$125	
OTHER EXPENSES:											
5) Graphics											
6) Misc Expenses											
		CADD	48	#Hours	\$35						\$1,680
		Materials		LS							
		Reproduction		LS							
SUBTOTAL OTHER EXPENSES										\$1,680	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal		0	Hours	\$0					\$0
		Supervisor		0	Hours	\$0					\$0
		Senior Architect/Engineer		0	Hours	\$0					\$0
		Architect/Engineer		0	Hours	\$0					\$0
		Technician / Drafter/CADD		0	Hours	\$0					\$0
		Secretary		0	Hours	\$0					\$0
		other		0	Hours	\$0					\$0
		labor subtotal									\$0
b. Materials				LS							\$0
c. Transportation				LS							\$0
d. Profit				10.0%							\$0
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$23,686	
12) Contingency, Account 30.A.A.										20%	
13) TOTAL FOR OFFICE										\$28,423	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Civil and Environmental Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Site Visits			16	32	24		4	
Review of Submittals/ VE			8	40	40	16	4	
Modifications Preparation			8	40	40	40	16	
Pre-Constr. Meeting				8				
As-Builts						8		
		0	32	120	104	64	24	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Electrical Design				DD	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	26	Hours	\$44	\$1,144	
	Architect/Engineer	12	128	Hours	\$37	\$4,736	
	Architect/Engineer	11	248	Hours	\$34	\$8,432	
	Technician	7/ 9	72	Hours	\$26	\$1,872	
	Secretary	5/6	28	Hours	\$17	\$476	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$16,660	
2) Tech Indirect (Est Rate:)		64.0%				\$10,662	
3) General Admin (Est Rate:)		27.0%				\$4,498	
TOTAL LABOR CHARGES						\$31,821	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days		\$100	
	Govt Vehicle	2400	# Miles	\$0.25		\$600	
	Flight	2	#Trips	\$500		\$1,000	
	Auto Rental	1	#Times	\$150		\$150	
SUBTOTAL TRAVEL						\$2,350	
OTHER EXPENSES:							
5) Graphics						\$250	
6) Misc Expenses		CADD		48 #Hours		\$35	
		Materials		LS		\$100	
		Reproduction		LS		\$250	
SUBTOTAL OTHER EXPENSES						\$2,280	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$36,451	
12) Contingency, Account 30.A.A.		20%				\$7,290	
13) TOTAL FOR OFFICE						\$43,741	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Electrical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Project Review			6	8	4			
PreCon Meeting				8				
Submittal and VE Review			2	12	40		4	
Site Visits/Field Inspections			8	16	32		4	
Factory Inspections				20	20		4	
Assistance to Construction Office			2	16	32	24	4	
Modifications			8	16	16	8		
O&M Manual				24	80		4	
As-Built Drawings				8	24	40	8	
		0	26	128	248	72	28	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Mechanical Design				DF	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
Branch Chief 14		0	Hours	\$52		\$0	
Section Chief 13		4	Hours	\$44		\$176	
Architect/Engineer 12		0	Hours	\$37		\$0	
Architect/Engineer 11		72	Hours	\$34		\$2,448	
Technician 7/ 9		16	Hours	\$26		\$416	
Secretary 5/6		8	Hours	\$17		\$136	
other		0	Hours	\$12		\$0	
Subtotal In-House Direct Labor						\$3,176	
2) Tech Indirect (Est Rate:)		64.0%				\$2,033	
3) General Admin (Est Rate:)		27.0%				\$858	
TOTAL LABOR CHARGES						\$6,066	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
		Govt Vehicle	600	# Miles	\$0.25	\$150	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$150	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		16	#Hours	\$35	\$560
		Materials		LS			\$500
		Reproduction		LS			\$500
SUBTOTAL OTHER EXPENSES						\$1,560	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor Principal		0	Hours	\$0		\$0	
Supervisor		0	Hours	\$0		\$0	
Senior Architect/Engineer		0	Hours	\$0		\$0	
Architect/Engineer		0	Hours	\$0		\$0	
Technician / Drafter/CADD		0	Hours	\$0		\$0	
Secretary		0	Hours	\$0		\$0	
other		0	Hours	\$0		\$0	
labor subtotal						\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$7,776	
12) Contingency, Account 30.A.A.		10%				\$778	
13) TOTAL FOR OFFICE						\$8,554	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Mechanical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
	review submittals and VE				24		4	
	as-builts				8	16		
	O&M manual supplement				8		2	
	site visit				16			
	modifications		4		16		2	
		0	4	0	72	16	8	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET										29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Cougar EDC						ORG CODE			
OFFICE:		Structural and Architectural Design						DG			
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief		14		0		Hours		\$52	
		Section Chief		13		320		Hours		\$44	
		Architect/Engineer		12		672		Hours		\$37	
		Architect/Engineer		11		702		Hours		\$34	
		Technician		7/ 9		465		Hours		\$26	
		Secretary		5/6		96		Hours		\$17	
		other				0		Hours		\$12	
Subtotal In-House Direct Labor										\$76,534	
2) Tech Indirect (Est Rate:)						64.0%				\$48,982	
3) General Admin (Est Rate:)						27.0%				\$20,664	
TOTAL LABOR CHARGES										\$146,180	
TRAVEL:											
4) Travel & Transportation											
		Per Deim		16		# Days				\$75	
		Govt Vehicle		3200		# Miles				\$0.25	
		Flight				#Trips				\$250	
		Auto Rental				#Times				\$35	
SUBTOTAL TRAVEL										\$2,000	
OTHER EXPENSES:											
5) Graphics										\$0	
6) Misc Expenses											
		CADD		345		#Hours				\$35	
		Materials				LS				\$1,000	
		Reproduction				LS				\$5,000	
SUBTOTAL OTHER EXPENSES										\$18,075	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal		0		Hours				\$0	
		Supervisor		0		Hours				\$0	
		Senior Architect/Engineer		0		Hours				\$0	
		Architect/Engineer		0		Hours				\$0	
		Technician / Drafter/CADD		0		Hours				\$0	
		Secretary		0		Hours				\$0	
		other		0		Hours				\$0	
		labor subtotal								\$0	
b. Materials						LS				\$0	
c. Transportation						LS				\$0	
d. Profit						10.0%				\$0	
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$166,255	
12) Contingency, Account 30.A.A.						20%				\$33,251	
13) TOTAL FOR OFFICE										\$199,506	

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BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		H & H Branch				DK	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	72	Hours	\$52	\$3,744	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	40	Hours	\$17	\$680	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$4,424	
2) Tech Indirect (Est Rate:)		64.0%				\$2,831	
3) General Admin (Est Rate:)		27.0%				\$1,194	
TOTAL LABOR CHARGES						\$8,450	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$8,450	
12) Contingency, Account 30.A.A.						10% \$845	
13) TOTAL FOR OFFICE						\$9,295	

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Hydraulic Design				DL	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	68	Hours	\$44	\$2,992	
	Architect/Engineer	12	228	Hours	\$37	\$8,436	
	Architect/Engineer	11	248	Hours	\$34	\$8,432	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$19,860	
2) Tech Indirect (Est Rate:)		64.0%				\$12,710	
3) General Admin (Est Rate:)		27.0%				\$5,362	
TOTAL LABOR CHARGES						\$37,933	
TRAVEL:							
4) Travel & Transportation		Per Deim		25	# Days	\$75	\$1,875
	Govt Vehicle	2000	# Miles	\$0.25		\$500	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$2,375	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
			Materials	LS		\$0	
			Reproduction	LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)		WES				\$0	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$40,308					
12) Contingency, Account 30.A.A.		5%				\$2,015	
13) TOTAL FOR OFFICE						\$42,323	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Hydraulic Design						
	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	Preconstruction meeting		8	8	8			
	Information requests (RFI's)		20	80	80			
	Site visits / Field inspections		40	120	120			
	SD and VE reviews			20	40			
		0	68	228	248	0	0	0
	A/E LABOR ACTIVITY	HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS								
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BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Reservoir Regulation & Water Quality				DR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	16	Hours	\$44	\$704	
	Architect/Engineer	12	120	Hours	\$37	\$4,440	
	Architect/Engineer	11	120	Hours	\$34	\$4,080	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$9,224	
2) Tech Indirect (Est Rate:)		64.0%				\$5,903	
3) General Admin (Est Rate:)		27.0%				\$2,490	
TOTAL LABOR CHARGES						\$17,618	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials			LS		\$0
		Reproduction			LS		\$500
SUBTOTAL OTHER EXPENSES						\$500	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$18,118	
12) Contingency, Account 30.A.A.		20%				\$3,624	
13) TOTAL FOR OFFICE						\$21,741	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar EDC
OFFICE:	Reservoir Regulation & Water Quality

DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
	Interum Water Control Manual		16		120			
	Agency Coord. Mtg's (6/yr) res. reg. and turbidity			120				
		0	16	120	120	0	0	0

[illegible]

REMARKS

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		Hydrologic, Coastal & River				DN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	88	Hours	\$44	\$3,872	
	Architect/Engineer	12	80	Hours	\$37	\$2,960	
	Architect/Engineer	11	320	Hours	\$34	\$10,880	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$17,712	
2) Tech Indirect (Est Rate:)		64.0%				\$11,336	
3) General Admin (Est Rate:)		27.0%				\$4,782	
TOTAL LABOR CHARGES						\$33,830	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle	600	# Miles	\$0.25		\$150	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$150	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
	Materials			LS			\$200
	Reproduction			LS			
SUBTOTAL OTHER EXPENSES						\$200	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$34,180	
12) Contingency, Account 30.A.A.		20%				\$6,836	
13) TOTAL FOR OFFICE						\$41,016	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Hydrologic, Coastal & River						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
	Flow Control Analysis of Diversion Scheme							
	Flow Routings		24		120			
	Coordiantion w/RCC (Modified Operations)				20			
	Site Visits		20	20	20			
	Report							
	Document results		12		40			
	Interum Water Control Manual		12		80			
	Coordination		20		40			
	Agency Coord. Mtgs. (3/yr) sedimentation			60				
		0	88	80	320	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET

29-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Cougar EDC

ORG CODE

OFFICE: Geotechnical Engineering

CJ

DIRECT CHARGES:

1) a. Labor		Amount		Staff Average	\$ Amount
Branch Chief	14	120	Hours	\$52	\$6,240
STL	13	285	Hours	\$44	\$12,540
Geol/Engr-Scien	12	712	Hours	\$37	\$26,344
Geol/Engr-Scien	11	276	Hours	\$34	\$9,384
Technician	7/9	900	Hours	\$26	\$23,400
Secretary	5/6	8	Hours	\$17	\$136
other		0	Hours	\$12	\$0
Subtotal In-House Direct Labor					\$78,044
2) Tech Indirect (Est Rate:)		64.0%			\$49,948
3) General Admin (Est Rate:)		27.0%			\$21,072
TOTAL LABOR CHARGES					\$149,064

TRAVEL:

4) Travel & Transportation				
Per Diem	28	# Days	\$75	\$2,100
Govt Vehicle	27500	# Miles	\$0.25	\$6,875
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL**\$8,975****OTHER EXPENSES:**

5) Graphics				
6) Misc Expenses				
CADD	100	#Hours	\$35	\$3,500
Materials	1	LS		\$50
Reproduction		LS		

SUBTOTAL OTHER EXPENSES**\$3,550****CONTRACTS & OTHER COE:**

8)	A/E Contract Payments		Amount	Staff Average	\$ Amount
a.	Labor	Principal	0	Hours	\$0
		Supervisor	0	Hours	\$0
		Senior Architect/Engineer	0	Hours	\$0
		Architect/Engineer	0	Hours	\$0
		Technician / Drafter/CADD	0	Hours	\$0
		Secretary	0	Hours	\$0
		other	0	Hours	\$0
		labor subtotal			\$0
b.	Materials		LS		\$0
c.	Transportation		LS		\$0
d.	Profit		10.0%		\$0
9)	Other Corps Payments (eg. 2544's)				
10)	Other Government Payments (eg. 1144's)				

SUBTOTAL CONTRACTS & OTHER COE**\$0****SUMMARY**

11) Total Estimated Cost for Account 30.A.				\$161,589
12) Contingency, Account 30.A.A.		10%		\$16,159
13) TOTAL FOR OFFICE				\$177,748

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Geotechnical Engineering						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
EDC Instrumentation		20	32	160				
EDC Diversion		48	32	64			4	
Instrumentation Monitoring			64	160	160	640		
Instrumentation Reports		36	32	160		160		
Review Submittals			28	56	16			
Prepare Modifications			12	24	16			
As-built Dwgs			33	40	60	100		
Review VE Proposals			4	16				
Preconstruction Conference			16	8	8			
Site Visits		16	32	24	16		4	
		120	285	712	276	900	8	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET										29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Cougar EDC								ORG CODE	
OFFICE:		Fish and Wildlife								EN	
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
Branch Chief		14	0	Hours	\$52					\$0	
Section Chief		13	64	Hours	\$44					\$2,816	
Architect/Engineer		12	800	Hours	\$37					\$29,600	
Architect/Engineer		11	0	Hours	\$34					\$0	
Technician		7/ 9	0	Hours	\$26					\$0	
Secretary		5/6	0	Hours	\$17					\$0	
other			0	Hours	\$12					\$0	
Subtotal In-House Direct Labor										\$32,416	
2) Tech Indirect (Est Rate:)				64.0%						\$20,746	
3) General Admin (Est Rate:)				27.0%						\$8,752	
TOTAL LABOR CHARGES										\$61,915	
TRAVEL:											
4) Travel & Transportation				Per Deim		30	# Days	\$75			\$2,250
				Govt Vehicle		####	# Miles	\$0.25			\$3,750
				Flight			#Trips	\$250			\$0
				Auto Rental			#Times	\$35			\$0
SUBTOTAL TRAVEL										\$6,000	
OTHER EXPENSES:											
5) Graphics											
6) Misc Expenses				CADD		0	#Hours	\$35			\$0
				Materials			LS				
				Reproduction			LS				
SUBTOTAL OTHER EXPENSES										\$0	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor				Principal		0	Hours	\$0			\$0
				Supervisor		0	Hours	\$0			\$0
				Senior Architect/Engineer		0	Hours	\$0			\$0
				Architect/Engineer		0	Hours	\$0			\$0
				Technician / Drafter/CADD		0	Hours	\$0			\$0
				Secretary		0	Hours	\$0			\$0
				other		0	Hours	\$0			\$0
				labor subtotal						\$0	
b. Materials				LS						\$0	
c. Transportation				LS						\$0	
d. Profit				10.0%						\$0	
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)		USFS, ODFW								\$10,000	
SUBTOTAL CONTRACTS & OTHER COE										\$10,000	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$77,915	
12) Contingency, Account 30.A.A.				10%						\$7,791	
13) TOTAL FOR OFFICE										\$85,706	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Cougar EDC
OFFICE:	Fish and Wildlife

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
agency coordination meetings		64	640				
site visits			160				

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

\$10,000 for USFS and ODFW monitoring assistance

BUDGET WORKSHEET

29-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Cougar EDC

ORG CODE

OFFICE: Technical Resources Branch

CR

DIRECT CHARGES:

1) a. Labor	Amount	Staff Average	\$ Amount
Branch Chief 14	0 Hours	\$52	\$0
Section Chief 13	0 Hours	\$44	\$0
Architect/Engineer 12	0 Hours	\$37	\$0
Architect/Engineer 11	0 Hours	\$34	\$0
Technician 7/ 9	16 Hours	\$26	\$416
Secretary 5/6	16 Hours	\$17	\$272
Stay-In-School 3/4	8 Hours	\$12	\$96
Subtotal In-House Direct Labor			\$784
2) Tech Indirect (Est Rate:)	64.0%		\$502
3) General Admin (Est Rate:)	27.0%		\$212
TOTAL LABOR CHARGES			\$1,497

TRAVEL:

4) Travel & Transportation			
Per Deim 0	# Days	\$75	\$0
Govt Vehicle 0	# Miles	\$0.25	\$0
Flight	#Trips	\$250	\$0
Auto Rental	#Times	\$35	\$0

SUBTOTAL TRAVEL

\$0

OTHER EXPENSES:

5) Graphics			\$0
6) Misc Expenses			
CADD 0	#Hours	\$35	\$0
Materials	LS		\$0
Reproduction	LS		\$500

SUBTOTAL OTHER EXPENSES

\$500

CONTRACTS & OTHER COE:

8) A/E Contract Payments	Amount	Staff Average	\$ Amount
a. Labor			
Principal	0 Hours	\$0	\$0
Supervisor	0 Hours	\$0	\$0
Senior Architect/Engineer	0 Hours	\$0	\$0
Architect/Engineer	0 Hours	\$0	\$0
Technician / Drafter/CADD	0 Hours	\$0	\$0
Secretary	0 Hours	\$0	\$0
other	0 Hours	\$0	\$0
labor subtotal			\$0
b. Materials	LS		\$0
c. Transportation	LS		\$0
d. Profit	10.0%		\$0
9) Other Corps Payments (eg. 2544's)			
10) Other Government Payments (eg. 1144's)			

SUBTOTAL CONTRACTS & OTHER COE

\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.		\$1,997
12) Contingency, Account 30.A.A.	10%	\$200
13) TOTAL FOR OFFICE		\$2,197

TASK WORKSHEET							
PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:	Cougar EDC						
OFFICE:	Technical Resources Branch						
DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	3/4
CR							
CP							
budget management					16		
CQ							
as-built's						16	8
	0	0	0	0	16	16	8
A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							

BUDGET WORKSHEET						9-Nov-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Cougar EDC				ORG CODE	
OFFICE:		RealEstate				BU	
DIRECT CHARGES:							
1) a. Labor				Amount	Staff Average	\$ Amount	
	Division Ch.	13	10	Hours	\$42	\$420	
	Branch Ch.	12	50	Hours	\$36	\$1,775	
	Attorney	13	50	Hours	\$39	\$1,925	
			0	Hours	\$0	\$0	
	Technician	11	10	Hours	\$33	\$325	
	Secretary	5/6	10	Hours	\$17	\$165	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$4,610	
2) Tech Indirect (Est Rate:)				68.0%	\$3,135		
3) General Admin (Est Rate:)				18.0%	\$830		
TOTAL LABOR CHARGES						\$8,575	
TRAVEL:							
4) Travel & Transportation				Per Diem	0	# Days	\$75
			800	Govt Vehicle	# Miles	\$0.25	\$200
				Flight	#Trips	\$250	\$0
				Auto Rental	#Times	\$35	\$0
SUBTOTAL TRAVEL						\$200	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses				CADD	0	#Hours	\$35
			1	Materials	LS		\$0
				Reproduction	LS		\$25
SUBTOTAL OTHER EXPENSES						\$25	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments				Amount	Staff Average	\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials				LS	\$0		
c. Transportation				LS	\$0		
d. Profit				10.0%	\$0		
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$8,800	
12) Contingency, Account 30.A.A.				10%		\$1,200	
13) TOTAL FOR OFFICE						\$10,000	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Cougar EDC						
OFFICE:		Real Estate						
		HOURS						
DIRECT LABOR ACTIVITY		13	12	13		11	5/6	other
Monitor and modify MOU		10	50	50		10	10	
		10	50	50	0	10	10	0
		HOURS						
A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BASELINE SCOPE OF WORK

PROJECT: Willamette Temperature Control			DATE PREPARED: 7/18/94		
SUBPRODUCT TITLE: Partnering - Blue River & Cougar			SUBPRODUCT #/WBS ID: WTCOWN; WTCBWN		
TECHNICAL MANAGER: Doug Clarke	OFFICE/OBS: NPP-PM	PROJECT/STUDY MANAGER: Doug Clarke	OFFICE/OBS: NPP-PM		

Subproduct Summary Description (attach additional detail sheets as necessary):

The contractor awarded the bid at each site will be offered the opportunity to enter into a partnering agreement with the Corps. This has proven successful in limiting contract cost growth and litigation, while meeting contract requirements.

There will be a two day kickoff meeting with the contractor, representatives of principle subcontractors as appropriate, members of the District staff, and a contract facilitator. The purpose of the first meeting will be to develop a partnering agreement that will outline working relationships, develop issue resolution procedures, and identify solutions to potential problems. The agreement will also include mutual goals and objectives. Followup meetings in the early contract stages and in the middle of the contract, will be held as half day sessions. The purpose of the followup meetings is to assess problems, apply resolution processes to specific problems, and make any revisions necessary. If required, additional meetings will be scheduled. The kickoff meeting will be held in an offsite facility to improve the working relations. Followup meetings will be held in the District office.

UPWARD REPORTED MILESTONES		% COMPL	INTERNAL MILESTONES		DATE	% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
N/A			N/A				
	FY98	FY99	FY00	FY02	OUTYEAR	TOTAL	
CONSTRUCTION COST							
TOTAL CONSTRUCTION COST	CONTINGENCY						
						N/A	
BASELINE ALLOCATION *	35.1	14.5	14.5	35.2	29	128.3	
	CONTINGENCY					16.7	
TOTAL ESTIMATE						145	

Submitted:

Approved:

(Technical Manager)

(Date)

(Project/Study Manager)

(Date)

* Allocation does not include Contingency, and is the approved budget amount.

BASELINE SCOPE OF WORK

PROJECT: Willamette Temperature Control- COUGAR & BLUE RIVER						DATE PREPARED: 7/18/94	
SUBPRODUCT TITLE: Partnering						SUBPRODUCT #/WBS ID:	
TECHNICAL MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM	
ORGANIZATION	FY 98	FY 99	FY 00	FY 02	FY 03	FY 04	TOTAL
NPP-PM	5.4	2	2	5.4	2	2	18.8
Contract	4			4			8
PE	15	7.5	7.5	15	7.5	7.5	60
OP	5	2.5	2.5	5	2.5	2.5	20
CO	5	2.5	2.5	5	2.5	2.5	20
CT	0.7			0.8			1.5
BASELINE SUB-PRODUCT ALLOCATI	35.1	14.5	14.5	35.2	14.5	14.5	128.3

ATTACH DETAILED SUBPRODUCT DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

PM

Contract for facilitator and facility- 5 days prep & \$8,000 facilitator cost (kickoff meeting only)

Meeting preparation & participation- 15 days

Graphics/reproduction- \$3,000

CT

Process contracts- \$1,500 total for Blue & Cougar

CO & OP-V

Meeting preparation, participation, and follow-up

2 representatives for each office

8 days per person total per project

64 days total for Blue & Cougar

PE

Meeting preparation, participation, and follow-up

6 representatives

8 days per person total per project

96 days total for Blue & Cougar

Total Hours = $(20 + 64 + 96) * 8 = 1440$ Hours

PROJECT:

Willamette Temperature Control- COUGAR & BLUE RIVER

TECH ELEMENT:

Various (Partnering)

ACCOUNT CODE:

		Typ. Staff		
		Element Ave.		Cost
Budget Category	Amount	Effect. Rate		Estimate

Direct Charges**1) Labor**

Reg	1440 Hours	\$38.00	\$54,720
OT	Hours		
Borrowed	Hours		
Borrowed OT	Hours		
Subtotal Labor	1440 Hours		\$54,720

2) Travel & Transportation

Per Diem	22 # Days	\$100.00	\$2,200
Govt Vehicle	1200 # Miles	\$0.25	\$300
Subtotal Travel			\$2,500

3) Suppl's & Materials

L.S.

4) Misc Expense

1500 L.S. (Contract processing) \$1,500

5) Facility Accounts

Reproduction	3000 L.S.		
ADP	CPU Unit		
Plant & Equipment	L.S.		
Survey	Days		
Core Drill	Days		
Shops & Yards	Days		
Subtotal Facility Accounts	3000		\$3,000

6) Contract Payments (A/E, etc.)

(Facilitator & Facility) \$8,000

7) Other Corps Payments (eg. MIPR's)**8) Other Government Payments (eg. 1144's)****Total Direct Charges for Org** \$69,720**Distributive Charges****9) Technical Indirect (Est Rate)** 80% \$43,776**10) General Admin (Est Rate)** 27% \$14,774**Total Distributed Charges** \$58,550**Total Estimated Cost for Account 30. for Organization** \$128,270**Contingency** \$16,730**Total for Account** **\$145,000**

BASELINE SCOPE OF WORK

PROJECT: Williamette Temperature Control		DATE PREPARED: September 1, 1994 R2	
TASK TITLE: Value Engineering Studies		TASK NUMBER/WBS ID: WTCBX WTCX	
TECHNICAL MANAGER: DD Kido	OFFICE: CENPP-VE	PROJECT/STUDY MANAGER: Doug Clarke	OFFICE: CENPP-DDE-PM

TASK SUMMARY DESCRIPTION: (See Attached Sheets for Additional Detail)

Provide the required Value Engineering studies (ER 1110-2-1150) for your project with a programmed cost of \$10,000,000 or more. These studies will provide a quality product at the lowest life cycle cost through VE methodology and should be performed on the earliest document available that satisfies the functional requirements of the project.

There are 2 locations, Cougar and Blue River. Each location is programmed to have a construction contract over \$2,000,000. For each construction contract, we need to schedule a minimum of 1 VE study.

Additional efforts will be necessary to review Value Engineering proposals from in-house and contractor proposals during the life of each contract. Reporting requirements and higher headquarters inquiries related to the study, contract, or VE proposals also included in this portion of the estimate.

UPWARD REPORTED MILESTONES	%	INTERNAL MILESTONES	%	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:					
DATE	COMPL	DATE	COMPL						
				<div style="text-align: right;"> _____ _____ _____ _____ PM _____ PE-T VE- <u>Doc 1/1</u> </div>					
	FY94	FY95	FY96				FY97	FY98+	TOTAL
STUDY/PROPOSAL COSTS	0.5	112.5	5				18	319	455
CONTINGENCY							15		
TOTAL COST						470			
TOTAL TASK ALLOCATION *	CONTINGENCY								
TOTAL ESTIMATE									

Submitted:	<u>DD Kido</u>	Approved:	<u>9/1/94</u>	
	(Technical Manager)		(Date)	(Project/Study Manager)
	DD Kido			Doug Clarke

* Allocation does not include Contingency, and is the approved budget amount.

BASELINE SCOPE OF WORK

PROJECT: Willamette Temperature Control						DATE PREPARED: September 1, 1994 R2			
TASK TITLE: Value Engineering Studies						TASK NUMBER/WBS ID:			
TECHNICAL MANAGER: DD Kido		OFFICE: CENPP-VE		PROJECT/STUDY MANAGER: Doug Clarke			OFFICE: CENPP-DDE-PM		
ORGANIZATION	FY 94	FY95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01+	TOTAL
VE Coordination Studies	0.5	8 105	5	5	3.5		5	5	32 232.5
VE Proposals-C				13	15	17.5	20	25	90.5
VE Proposals-B							20	80	100
TOTAL TASK ALLOCATION	0.5	113	5	18	18.5	145.5	45	110	455

ATTACH DETAILED TASK DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

PROJECT: **Williamette Temperature Control**

Date:

TECH ELEMENT:

August 5, 1994

WORK COMPONENT: Cost for each VE study

Budget Category	Amount		Typical Staff Element Avg Eff Rate 146%	Cost Estimate
Direct Charges:				
1) a. Labor				
Branch Ch/GM-14	48	Hours	\$53.00	\$2,544
Sr. Tech Ldr/GM-13	240	Hours	\$42.00	\$10,080
Engr-Scien/GS-12	80	Hours	\$37.00	\$2,960
Engr-Scien/GS-11	80	Hours	\$33.00	\$2,640
Technician GS-09	30	Hours	\$20.00	\$600
WES	60	Hours	\$45.00	\$2,700
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
Office Automation	20	Hours	\$16.00	\$320
Secretary	40	Hours	\$16.00	\$640
Sub-Total Direct Labor		Hours		\$22,484
2) Tech Indirect (Est Rate:)	(OT EXCLUDED)	70.0%		\$15,739
3) General Admin (Est Rate:)	(OT EXCLUDED)	30.0%		\$6,745
Total Labor Charges				\$44,968
TRAVEL:				
4) Travel & Transportation				
Per Diem	15	# Days	\$75.00	\$1,125
Govt Vehicle	500	# Miles	\$0.25	\$125
Flight	2	#Trips	\$1,000.00	\$2,000
Rental Car	2	#Times	\$50.00	\$100
Sub-Total Travel				\$3,350
OTHER:				
5) Supplies & Materials	GRAPHICS	LS	\$5	\$0
6) Misc Expenses	CADD	#Hours	\$35	\$0
	Materials	LS	\$1	\$0
	Reproduction	250	\$0.50	\$125
Sub-Total Other				\$125
CONTRACTS & OTHER COE:				
8) Contract Payments (A/E, Contr, RE)	48	#Hours	\$60	\$2,880
9) Other Corps Payments (eg. 2544's)				\$44,000
10) Other Government Payments (eg. 1144's)				
Total Contracts and Other COE				\$46,880
13) Total Estimated Cost for Account 30.A for CENPP-VE				\$95,323
12) Contingency, Account 30.A.A.	10.0%			\$9,532
13) Total for Account 30.A.				\$104,855

NOTES:

This estimate covers one field trip down to the site, participation by an A/E consultant in the VE study process including participation in the study team meetings, coordination of the team elements with outside VE professionals and coordination by district in-house personnel.

This includes one professional from WES to participate on the VE team for a week with additional time for follow up actions.

PROJECT: Williamet Temperature Control

Date:

TECH ELEMENT:

13-Jun-94

WORK COMPONENT: Value Engineering proposals

Budget Category	Amount	Typical Staff Element Avg Eff Rate 146%	Cost Estimate
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Direct Charges:

1) a. Labor

Branch Ch/GM-14	0	Hours	\$53.00	\$0
Sr. Tech Ldr/GM-13	20	Hours	\$42.00	\$840
Engr-Scien/GS-12	16	Hours	\$37.00	\$592
Engr-Scien/GS-11	16	Hours	\$33.00	\$528
Technician GS-09	0	Hours	\$20.00	\$0
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
		Hours	\$0.00	\$0
Secretary	0	Hours	\$16.00	\$0

Sub-Total Direct Labor

2) Tech Indirect (Est Rate:)	(OT EXCLUDED)	70.0%	\$1,372
3) General Admin (Est Rate:)	(OT EXCLUDED)	30.0%	\$588

Total Labor Charges**\$3,920****TRAVEL:**

4) Travel & Transportation

Per Diem		# Days	\$75.00	\$0
Govt Vehicle		# Miles	\$0.25	\$0
Flight	0	#Trips	\$250.00	\$0
Rental Car	0	#Times	\$50.00	\$0

Sub-Total Travel**\$0****OTHER:**

5) Supplies & Materials

GRAPHICS		LS	\$5	\$0
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6) Misc Expenses

CADD	0	#Hours	\$35	\$0
Materials		LS	\$1	\$0
Reproduction	0	LS	\$0.50	\$0

Sub-Total Other**\$0****CONTRACTS & OTHER COE:**

8) Contract Payments (A/E, Contr, RE)		#Hours	\$60	\$0
9) Other Corps Payments (eg. 2544's)				
10) Other Government Payments (eg. 1144's)				

Total Contracts and Other COE**\$0**

13) Total Estimated Cost for Account 30.A for CENPP-PE-G

\$3,920

12) Contingency, Account 30.A.A.

10.0%**\$392**

13) Total for Account 30.A.

\$4,312**NOTES:**

This is an estimate for each VE proposal that is submitted by a contractor or in-house personnel

The anticipated activity in number of proposals submitted would average 3-4 each year the contract is in force.

BASELINE SCOPE OF WORK	
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PROJECT: Willamette Temperature Control- COUGAR

DATE PREPARED:
8/22/94

JBPRODUCT TITLE:
Project Management

SUBPRODUCT #/WBS ID:

TECHNICAL MANAGER: Doug Clarke

OFFICE/OBS: NPP-PM

PROJECT/STUDY MANAGER: Doug Clarke

OFFICE/OBS: NPP-PM

The project manager (PM) is responsible for overall management of the project and serves as leader of the project team in accordance with ER 5-7-1. The PM allocates funds, assists in resolution of issues to limit impacts on the project's cost and schedule, approves changes as outlined in the PMP, serves as the primary point of contact with outside agencies and the media, and other duties as described in the project management plan.

Due to the need to maintain flood control during construction, and the resulting gaps in the construction schedule, the level of project management effort after contract award is expected to peak during the summer.

UPWARD REPORTED MILESTONES			% COMPL	INTERNAL MILESTONES			% COMPL	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
N/A				N/A				

							_____ PM	
							_____ PM-S	
							_____ PM-P	
			FY95	FY 96	FY 97	FY 98	OUTYEAR	TOTAL
CONSTRUCTION COST								
TOTAL CONSTRUCTION COST			CONTINGENCY					
BASELINE ALLOCATION *			42	93	98	67	233	533
TOTAL ESTIMATE			CONTINGENCY					43
								576
Submitted: _____ (Technical Manager)			9/8/99 (Date)		Approved: _____ (Project\Study Manager)			(Date)

* Allocation does not include Contingency, and is the approved budget amount.

PROJECT: Willamette Temperature Control- COUGAR

TECH ELEMENT: NPP-PM-P

ACCOUNT CODE:

Budget Category	Amount	Variable	Typ. Staff Element Ave. Effective Rate	Cost Estimate
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Direct Charges

1) Labor

Reg	104 Hours		\$33.39	\$3,473
OT	Hours			
Borrowed	Hours			
Borrowed OT	Hours			
Subtotal Labor	104 Hours			\$3,473

2) Travel & Transportation

Per Diem	2 # Days		\$75.00	\$150
Govt Vehicle	# Miles		\$0.25	\$0
Subtotal Travel				\$150

3) Supplys & Materials

L.S.

4) Misc Expense 1926 L.S. \$1,926

5) Facility Accounts

Reproduction	L.S.			
ADP	CPU Unit			
Plant & Equipment	Days			
Survey	Days			
Core Drill	Days			
Shops & Yards	Days			
Subtotal Facility Accounts	0			\$0

6) Contract Payments (A/E, etc.)

7) Other Corps Payments (eg. MIPR's)

8) Other Government Payments (eg. 1144's)

Total Direct Charges for Org \$5,549

Distributive Charges

9) Technical Indirect (Est Rate) 130% \$4,514

10) General Admin (Est Rate) 27% \$938

Total Distributed Charges \$5,452

Total Estimated Cost for Account 30. for Organization \$11,000

Contingency, Account 30. .Z \$0

Total for Account \$11,000

30.P Total = 60%

31.P Total = 40%

BASELINE SCOPE OF WORK

PROJECT: Willamette Temperature Control- COUGAR							DATE PREPARED: 8/22/94		
SUBPRODUCT TITLE: Project Management							SUBPRODUCT #/WBS ID:		
TECHNICAL MANAGER: Doug Clarke			OFFICE/OBS: NPP-PM		PROJECT/STUDY MANAGER: Doug Clarke			OFFICE/OBS: NPP-PM	
ORGANIZATION	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOTAL
NPP-PM	36	75	80	51	51	52	52	23	420
PM-S	5.5	16	16	14.5	14.5	14.5	14.5	6.5	102
PM-P	0.5	2	2	1.5	1.5	1.5	1.5	0.5	11
BASELINE ALLOCATION	42	93	98	67	67	68	68	30	533

ATTACH DETAILED SUBPRODUCT DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

PM

Open Plan- 1 day/month

BMS/allocation/SACCR actions- 1 days/month

PRB reports/meeting- 1 day/month

Site visit- 2 days/year

Coordination, meeting attendance, issue resolution during FDM/P & S- 1 day/week

PM involvement during construction season- 1 days/week

Programming actions- 10 days /year

FY 95 40 days

FY 96 - 97 100 days/year

FY 98 - 01 64 days/year

FY 02 32 days

Total 528 days = 4224 hours

PM-S

BMS Input/PRB reports/SACCR processing- 1 day/month

Site visit- 1 day/year

Open Plan- 1/2 day/month

Programming actions/forcon- 3 days/year

Work orders/document review- 1 day/month May - Oct

1/2 day/month Nov - Apr

Total = 31 days/year = 1696 hours

PM-P

Miscellaneous support - 2 days/year = 104 hours

PROJECT: Willamette Temperature Control- COUGAR

TECH ELEMENT: NPP-PM

ACCOUNT CODE:

Typ. Staff

Element Ave.

Cost

Effective Rate

Estimate

Budget Category

Amount

Variable

Direct Charges

1) Labor

Reg	4224	Hours	\$38.00	\$160,512
OT		Hours		
Borrowed		Hours		
Borrowed OT		Hours		
Subtotal Labor	4224	Hours		\$160,512

2) Travel & Transportation

Per Diem	12	# Days	\$75.00	\$900
Govt Vehicle	2400	# Miles	\$0.25	\$600
Subtotal Travel				\$1,500

3) Supplys & Materials

L.S.

4) Misc Expense

984 L.S.

\$984

5) Facility Accounts

Reproduction

L.S.

ADP

5000 CPU Unit

Plant & Equipment

Days

Survey

Days

Core Drill

Days

Shops & Yards

Days

Subtotal Facility Accounts	5000			\$5,000
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6) Contract Payments (A/E, etc.)

7) Other Corps Payments (eg. MIPR's)

8) Other Government Payments (eg. 1144's)

Total Direct Charges for Org				\$167,996
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Distributive Charges

9) Technical Indirect (Est Rate)	130%	\$208,666
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10) General Admin (Est Rate)	27%	\$43,338
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Total Distributed Charges		\$252,004
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Total Estimated Cost for Account 30. for Organization		\$420,000
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Contingency, Account 30. .Z		\$30,000
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Total for Account		\$450,000
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30.P Total = 60%

31.P Total = 40%

PROJECT: Willamette Temperature Control- COUGAR
 TECH ELEMENT: NPP-PM-S
 ACCOUNT CODE:

Budget Category	Amount	Variable	Typ. Staff Element Ave. Effective Rate	Cost Estimate
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Direct Charges

1) Labor				
Reg	1696 Hours		\$23.03	\$39,059
OT	Hours			
Borrowed	Hours			
Borrowed OT	Hours			
Subtotal Labor	1696 Hours			\$39,059
2) Travel & Transportation				
Per Diem	5 # Days		\$75.00	\$375
Govt Vehicle	# Miles		\$0.25	\$0
Subtotal Travel				\$375
3) Supplis & Materials				
	L.S.			
4) Misc Expense				
	1244 L.S.			\$1,244
5) Facility Accounts				
Reproduction	L.S.			
ADP	CPU Unit			
Plant & Equipment	Days			
Survey	Days			
Core Drill	Days			
Shops & Yards	Days			
Subtotal Facility Accounts	0			\$0
6) Contract Payments (A/E, etc.)				
7) Other Corps Payments (eg. MIPR's)				
8) Other Government Payments (eg. 1144's)				
Total Direct Charges for Org				\$40,678

Distributive Charges

9) Technical Indirect (Est Rate)	130%	\$50,777
10) General Admin (Est Rate)	27%	\$10,546
Total Distributed Charges		\$61,322
Total Estimated Cost for Account 30. for Organization		\$102,000
Contingency, Account 30. .Z		\$13,000
Total for Account		\$115,000

30.P Total = 60%

31.P Total = 40%

BASELINE SCOPE OF WORK										
PROJECT: Willamette Temperature Control						DATE REVISED: 30 Nov 1994				
TASK TITLE: Couger/ Construction Management (31 Account)						TASK NUMBER/WBS ID:				
TECHNICAL MANAGER: KATHY VEST		OFFICE: CENPP-CO-S		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE: CENPP-DDE-PM				
TASK SUMMARY DESCRIPTION: (See Attached Sheets for Additional Detail) Provide Construction Management cost estimates for all costs incurred by Construction Division, Engr Division, and Contracting Division for contract administration, supervision & inspection, quality assurance, and related tasks associated with the construction contract at Couger. It is proposed that Construction Division not establish an Area Office for this work. A Project Engineer, part-time Construction Representative, and part-time clerical staff would be assigned to oversee this project. Support facilities will be provided by Operations Division for the duration of the contract.										
UPWARD REPORTED MILESTONES			% DATE COMPL			INTERNAL MILESTONES		% DATE COMPL		COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: CENPP-CO-SC CENPP-PM-P CENPP-OP-A CENPP-PE-D CENPP-CT-C CENPP-CO-FP CENPP--CO-SC
			FY98	FY99	FY00	FY01	FY02	TOTAL		
CONSTRUCTION COST								13,424		
TOTAL CONSTRUCTION COST			CONTINGENCY						2013.6	
									15438	
TOTAL TASK ALLOCATION *			190	318.3	441.6	318.3		1268.3		
			CONTINGENCY						190.2	
TOTAL ESTIMATE									1458.5	
Submitted: <u>Kathy Vest</u> 11/30/94 Approved: _____										
(Technical Manager)			(Date)			(Project\Study Mgr)			(Date)	
Kathy Vest										

A.7

<div> <div>Page 2</div> <div>BASELINE SCOPE OF WORK</div> </div>									
PROJECT: Willamette Temperature Control						DATE REVISED: 30 Nov 1994			
TASK TITLE: Couger/Construction Management (31 Account)						TASK NUMBER/WBS ID:			
TECHNICAL MANAGER: Kathy Vest		OFFICE: CENPP-CO-S		PROJECT/STUDY MANAGER: Doug Clarke			OFFICE: CENPP-DDE-PM		
ORGANIZATION	FY 98	FY99	FY00	FY 01	FY02	FY 03	FY 04	FY 05	TOTAL
Field Office S&A CO-FP 31A0	150.5	251	351.2	250.9					1003.5
Dist. Office S&A CO-S 31C1	34.4	57.3	80.2	57.3					229.2
Contrctg Div S&A CT-C 31C2	2.4	4.7	4.7	4.7					16.5
Engr Div (Shop Dwg Review) 31C2	1	1.8	1.9	1.8					6.5
Proj Mngmt PM-P 31E0									
Operations Div OP-P 31C2	1.8	3.6	3.6	3.6					
TOTAL TASK ALLOCATION	190.1	318	441.6	318.3					1268.3

ATTACH DETAILED TASK DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

BUDGET WORKSHEET				27-Jun-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK:		Cougar Construction Management		ORG CODE	
OFFICE:		Construction Division (District Ofc)		FB/FC	
LABOR CHARGES (Preparation Phase): (2 Weeks)					
1) a. Labor		Amount		Staff Ave	\$ Amount
	Chief (14)	1	Hours	\$63	\$63
	Branch Chief (13)	4	Hours	\$44	\$176
	CA Engineer (12)	16	Hours	\$42	\$672
	Budget Tech. (7/8)	3	Hours	\$19	\$57
	Support Svcs Spec (7)	1	Hours	\$21	\$21
	Secretary (5)	3	Hours	\$15	\$45
	Other		Hours	\$0	0
Subtotal In-House Direct Labor					\$1,034
2) Tech Indirect (Est. Rate):		68.00%			\$703
3) G&A Rate (Est. Rate):		20.00%			\$207
Total Labor Charges (Preparation Phase):					\$1,944
LABOR CHARGES (Construction Phase):		188 Weeks			
4) a. Labor		Amount		Staff Ave	\$ Amount
	Chief (14)	376	Hours	\$63	\$23,688
	Branch Chief (13)	564	Hours	\$44	\$24,816
	CA Engineer (12)	564	Hours	\$42	\$23,688
	Budget Tech. (7/8)	752	Hours	\$19	\$14,288
	Support Svcs Spec (7)	94	Hours	\$21	\$1,974
	Secretary (5)	188	Hours	\$15	\$2,820
	Environmental Spec (12)	188	Hours	\$37	\$6,956
	Environmental Engr (12)	94	Hours	\$33	\$3,102
Subtotal In-House Direct Labor					\$101,332
5) Tech Indirect (Est. Rate):		68.00%			\$68,906
6) G&A Rate (Est. Rate):		20.00%			\$20,266
Total Labor Charges (Construction Phase):					\$190,504
LABOR CHARGES (Closeout Phase): (3 Weeks)					
7) a. Labor		Amount		Staff Ave	\$ Amount
	Chief (14)	1.5	Hours	\$63	\$95
	Branch Chief (13)	1.5	Hours	\$44	\$66
	CA Engineer (12)	1	Hours	\$42	\$42
	Budget Tech. (7/8)	9	Hours	\$19	\$171
	Support Svcs Spec (7)	2	Hours	\$21	\$42
	Secretary (5)	6	Hours	\$15	\$90
	Other		Hours	\$0	0
Subtotal In-House Direct Labor					\$506
8) Tech Indirect (Est. Rate):		68.00%			\$344
9) G&A Rate (Est. Rate):		20.00%			\$101
Total Labor Charges (Closeout Phase):					\$950
TOTAL DIRECT LABOR					\$193,398

BUDGET WORKSHEET				27-Jun-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK:		Cougar Construction Management		ORG CODE	
OFFICE:		Construction Division (District Ofc)		FB/FC	
TRAVEL:					
10) Travel & Transportation (Dist Ofc)					\$ Amount
Per Diem (1 RT @ 2dys/month)	94	# Days	\$75		\$7,050
Govt Vehicle	9400	# Miles	\$.35		\$3,290
Airlines		# Trips	\$0		\$0
Auto Rental		# Times	\$0		\$0
Total Direct Travel Expenses:					\$10,340
MISCELLANEOUS EXPENSES:					
11) Supplies & Materials					\$0
12) Reproduction					\$0
13) Other					\$0
Total Direct Miscellaneous Expenses:					\$0
Q A INSPECTION: (32 weeks)					
14) a. Labor		Amount	Staff Ave	\$ Amount	
Branch Chief (13)	16	Hours	\$44		\$704
Quality Assur Spec (11)	256	Hours	\$28		\$7,168
Subtotal In-House Direct Labor					\$7,872
15) Tech Indirect (Est. Rate:)	68.00%				\$5,353
16) G&A Rate (Est. Rate):	20.00%				\$1,574
Total Direct Labor					\$14,799
17) Travel & Transportation					\$ Amount
Per Diem	64	# Days	\$75		\$4,800
Govt Vehicle	1600	# Miles	\$.35		\$560
Airlines		# Trips	\$0		\$0
Auto Rental		# Times	\$0		\$0
Total Direct Travel					\$5,360
Total Direct Expenses for QA Inspection					\$25,519
Contracting Division					
18) Contracting Officer	172	Hours	\$40		\$6,880
19) Procurement Clerk	564	Hours	\$15		\$8,460
Total Contracting Division					\$15,340
TOTAL ESTIMATED COST FOR ACCOUNT 31.C.2					\$15,340
TOTAL ESTIMATED COST FOR ACCOUNT 31.C.1					\$229,258
TOTAL					\$244,598
Contingency, Account 31. .Z					\$24,460
TOTAL FOR ACCOUNT					\$269,058

BUDGET WORKSHEET				27-Jun-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK:		Cougar Construction Management		ORG CODE	
OFFICE:		Construction Division (Field Office)		FD	
LABOR CHARGES (Preparation Phase): (2 weeks)					
1) a. Labor		Amount		Staff Ave	\$ Amount
	Resident Engr (14)	2	Hours	\$54	\$108
	Proj Manager (13)	8	Hours	\$37	\$296
	CA Engr Tech (11)	2	Hours	\$30	\$60
	Elect Engr Tech (11)		Hours	\$27	\$0
	QA Inspector (9/11/12)		Hours	\$27	\$0
	Procurement Clrk (5)	4	Hours	\$15	\$60
	Secretary (6)	2	Hours	\$17	\$34
	Loaned Secretary (4/5)		Hours	\$14	\$0
Subtotal In-House Direct Labor					\$558
2) Tech Indirect (Est. Rate:)		68.00%			\$379
3) G&A Rate (Est. Rate):		20.00%			\$112
Total Labor Charges (Preparation Phase):					\$1,049
LABOR CHARGES (Construction Phase):		188 Weeks			
4) a. Labor		Amount		Staff Ave	\$ Amount
	Resident Engr (14)	188	Hours	\$54	\$10,152
	Proj Manager (13)	7440	Hours	\$37	\$275,280
	Civ Engr Tech (12)	376	Hours	\$30	\$11,280
	Elect Engr Tech (11)	564	Hours	\$27	\$15,228
	QA Inspector (9/11/12)		Hours	\$27	\$0
	Procurement Clrk (5)	940	Hours	\$15	\$14,100
	Secretary (6)	94	Hours	\$17	\$1,598
	Loaned Secretary (4/5)	3760	Hours	\$14	\$52,640
Subtotal In-House Direct Labor					\$327,638
5) Tech Indirect (Est. Rate:)		68.00%			\$222,794
6) G&A Rate (Est. Rate):		20.00%			\$65,528
Total Labor Charges (Construction Phase):					\$615,959
LABOR CHARGES (Closeout Phase): (3 weeks)					
7) a. Labor		Amount		Staff Ave	\$ Amount
	Resident Engr (14)	2	Hours	\$54	\$108
	Proj Manager (13)	48	Hours	\$42	\$2,016
	CA Engr Tech (11)	4	Hours	\$30	\$120
	Elect Engr Tech (11)		Hours	\$27	\$0
	QA Inspector (9/11/12)		Hours	\$35	\$0
	Procurement Clrk (5)	6	Hours	\$15	\$90
	Secretary (6)	2	Hours	\$18	218
	Loaned Secretary (4/5)	4	Hours	\$14	414
Subtotal In-House Direct Labor					\$2,334
8) Tech Indirect (Est. Rate:)		68.00%			\$1,587
9) G&A Rate (Est. Rate):		20.00%			\$467
Total Labor Charges (Closeout Phase):					\$4,388
TOTAL DIRECT LABOR					\$621,396

BUDGET WORKSHEET				27-Jun-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK:		Cougar Construction Management		ORG CODE	
OFFICE:		Construction Division (Field Office)		FD	
TRAVEL:					
10) Travel & Transportation					\$ Amount
Per Diem	940	# Days	\$65		\$61,100
Govt Vehicle (1 RT per wk)	8600	# Miles	\$.35		\$3,010
Airlines		# Trips	\$0		\$0
Auto Rental		# Times	\$0		\$0
Total Direct Travel Expenses:					\$64,110
MISCELLANEOUS EXPENSES:					
11) Supplies & Materials (\$20/month)					\$940
12) Reproduction (\$10/month)					\$470
13) Other					\$0
Total Direct Miscellaneous Expenses:					\$1,410
QUALITY ASSURANCE INSPECTION					
14) a. Labor		Amount	Staff Ave	\$ Amount	
Constr Inspector (9/11/12)	4128	Hours	\$35		\$144,480
Other		Hours	\$0		\$0
Subtotal In-House Direct Labor					\$144,480
15) Tech Indirect (Est. Rate):		68.00%			\$98,246
16) G&A Rate (Est. Rate):		20.00%			\$28,896
Total Direct Labor					\$271,622
17) Travel & Transportation					\$ Amount
Per Diem	160	# Days	\$65		\$10,400
Govt Vehicle	34400	# Miles	\$.35		\$12,040
Airlines		# Trips	\$0		\$0
Auto Rental		# Times	\$0		\$0
Total Direct Travel					\$22,440
Total Direct Expenses for QA Inspection					\$316,502
TOTAL ESTIMATED COST FOR ACCOUNT 31.A.1					\$1,003,419
Contingency, Account 31. .Z					\$100,342
TOTAL FOR ACCOUNT					\$1,103,761

BLUE RIVER PROJECT

WORK SCOPES

BASELINE SCOPE OF WORK								
PROJECT: Blue River Temperature Control						DATE PREPARED: 8/29/94		
SUBPRODUCT TITLE: Feature Design Memorandum						SUBPRODUCT #/WBS ID: WTC BU		
TECHNICAL MANAGER: Karl Swanson		OFFICE/OBS: NPP-PE-DS		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM		
SUBPRODUCT SUMMARY DESCRIPTION: (see attached)								
<p>- PMP Worksheet (summary, total cost by office)</p> <p>- Specific product outline (plates, text, drawings, specifications)</p> <p>- Individual office Budget and Task Worksheets</p>								
UPWARD REPORTED MILESTONES		% OMP	INTERNAL MILESTONES			% COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____	
			FY99	FY00	FY01	FY02	FY03	TOTAL
CONSTRUCTION COST								
		CONTINGENCY						
		TOTAL CONSTR. COST						
		0.35	0.65					
BASELINE ALLOCATION *		343	637				980	
		CONTINGENC						
		TOTAL ESTIMATE						
		1086						
Submitted:				Approved:				
(Technical Manager)		(Date)		(Project\Study Manager)		(Date)		

* Allocation does not include Contingency, and is the approved budget amount.

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS

Swanson

TASK: Blue River FDM

Organization	Office Symbol	Org Code	COSTS					
			Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$24,983	\$200	\$250	\$27,069	\$5,250	\$57,752
Design Branch	PE-D	DB	\$10,639	\$0	\$0	\$0	\$1,064	\$11,703
Civil/Land. Design	PE-DC	DC	\$36,668	\$300	\$3,660	\$1,000	\$8,326	\$49,954
Electrical Design	PE-DE	DD	\$15,490	\$100	\$3,100	\$0	\$3,738	\$22,428
Mechanical Design	PE-DM	DF	\$25,732	\$75	\$6,600	\$0	\$3,241	\$35,647
Struct/Arch Des.	PE-DS	DG	\$75,216	\$400	\$26,240	\$173,580	\$27,544	\$302,979
H & H Branch	PE-H	DK	\$11,093	\$0	\$0	\$0	\$1,109	\$12,203
Hydraul. Design	PE-HD	DL	\$107,327	\$1,175	\$4,900	\$30,000	\$7,170	\$150,572
Res. Regulation	PE-HR	DR	\$15,341	\$0	\$0	\$61,184	\$15,305	\$91,830
Hydrology	PE-HY	DN	\$82,565	\$450	\$900	\$0	\$8,392	\$92,307
Geotech Branch	PE-G	CJ	\$107,292	\$700	\$18,690	\$15,000	\$14,168	\$155,851
Economics	PE-PE	ED	\$16,930	\$0	\$0	\$0	\$1,693	\$18,623
Fish & Wildlife	PE-RR	EN	\$10,734	\$475	\$0	\$0	\$1,121	\$12,330
Environmental	PE-RP	EM	\$5,997	\$0	\$0	\$0	\$2,999	\$8,996
Tech. Branch	PE-T		\$39,590	\$0	\$0	\$0	\$3,959	\$43,550
Project	OP-V	JB	\$1,500	\$0	\$0	\$0	\$0	\$1,500
Real Estate	RE-AP	BU	\$6,950	\$100	\$50	\$0	\$700	\$7,800
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Contract Procurement	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$1,750	\$0	\$0	\$0	\$0	\$1,750
TOTALS			\$603,798	\$3,975	\$64,390	\$307,833	\$105,778	\$1,085,774

BLUE RIVER FDM SCOPE OF WORK

PLATES

B1	DC Site Map
B2	DC Contractor Operations
B3	DC Construction Sequence
B4	G Excavation and Treatment
B5	G Embankment Stability
B6	DS Demolition
B7	DS Elevations
B8	DS Plan and Longitudinal Section
B9	DS Structure Sections
B10	DS Details
B11	DS R O Trashrack
B12	DM Equipment Plan
B13	DM Temperature Control Gate
B14	DM Bypass Gate
B15	DM Fuse Panel
B16	HD Instrumentation
B17	DE Electrical Site Plan
B18	DE One Line Diagram

TEXT SECTIONS

1	DS Introduction
2	DS Existing Project Features
3	DS Proposed Features
4	DC Civil and HTRW
5	G Geotechnical
6	HY Hydrology
7	HD Hydraulic
8	HD Instrumentation
9	DS Structural
10	DM Mechanical
11	DE Electrical
12	DS Construction (C, DC)
13	DS Operation and Maintenance
14	C Cost Estimate
15	PE Economics
16	RE Real Estate
17	DS Coordination and Correspondance
18	DS Recommendation

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	52	Hours	\$48	\$2,496	
	Cost Engineer	12	252	Hours	\$42	\$10,584	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$13,080	
2) Tech Indirect (Est Rate:)		64.0%				\$8,371	
3) General Admin (Est Rate:)		27.0%				\$3,532	
TOTAL LABOR CHARGES						\$24,983	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	200	# Miles	\$0.25		\$50	
	Flight	0	#Trips	\$250		\$0	
	Auto Rental	0	#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$200	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials	LS			\$50	
		Reproduction	LS			\$200	
SUBTOTAL OTHER EXPENSES						\$250	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	36	Hours	\$80		\$2,880	
	Supervisor	0	Hours	\$72		\$0	
	Senior Architect/Engineer	296	Hours	\$65		\$19,240	
	Architect/Engineer	0	Hours	\$53		\$0	
	Technician / Drafter/CADD	0	Hours	\$36		\$0	
	Secretary	40	Hours	\$31		\$1,240	
	other	24	Hours	\$27		\$648	
	labor subtotal					\$24,008	
b. Materials		LS				\$100	
c. Transportation		LS				\$500	
d. Profit		10.0%				\$2,461	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$27,069	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$52,502					
12) Contingency, Account 30.A.A.		10%		\$5,250			
13) TOTAL FOR OFFICE						\$57,752	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Cost Engineering Branch						
		HOURS						
DIRECT LABOR ACTIVITY		14	13	12	11	9	5/6	other
General Design Conference			8	8				
Review			8	16				
Coordination			8	24				
Team meetings			8	24				
A/E D.O. prepare/estimate/negotiate			4	24				
A/E D.O. coordinate/review			4	32				
MCACES				40				
Site visit			12	12				
Spreadsheets & FDM Text				16				
Finalize Costs & Documentation				16				
Alternative Cost Support				40				
		0	52	252	0	0	0	0
		HOURS						
A/E LABOR ACTIVITY		Prin.	PM	Sr CE	CE	Jr CE	Tech	Secr
Management		8						24
Review		8						
Coordination		8						
Meetings				8				
Background/Scope of Work				8				
Review Design & Check Quantities				16			40	
Provide Constructability Review Comments to TM				40				
Constructibility/Retrofit considerations				8				
Construction Methods				8				
Bid Schedule				4				
Labor Costs, Data Base Update				8				
Equipment Costs Updates				8				
Crews				24				
MCACES				120				
Write Detailed' Construction Narratives				24				
Construction Schedule Input and Review				8				
Site visit		12		12				
A/E LABOR TOTALS		36	0	296	0	0	40	24
REMARKS								
<p>-1 A/E delivery order under \$150K</p>								
<p style="text-align: center;">BFDM.XLW</p>								

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	96	Hours	\$52	\$4,992	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	34	Hours	\$17	\$578	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$5,570	
2) Tech Indirect (Est Rate:)			64.0%		\$3,565		
3) General Admin (Est Rate:)			27.0%		\$1,504		
TOTAL LABOR CHARGES						\$10,639	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$0	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal		0	Hours	\$0	\$0	
	Supervisor		0	Hours	\$0	\$0	
	Senior Architect/Engineer		0	Hours	\$0	\$0	
	Architect/Engineer		0	Hours	\$0	\$0	
	Technician / Drafter/CADD		0	Hours	\$0	\$0	
	Secretary		0	Hours	\$0	\$0	
	other		0	Hours	\$0	\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$10,639	
12) Contingency, Account 30.A.A.			10%		\$1,064		
13) TOTAL FOR OFFICE						\$11,703	

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Civil and Environmental Design Section				DC	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	72	Hours	\$44	\$3,168	
	Architect/Engineer	12	352	Hours	\$37	\$13,024	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	96	Hours	\$26	\$2,496	
	Secretary	5/6	30	Hours	\$17	\$510	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$19,198	
2) Tech Indirect (Est Rate:)		64.0%				\$12,287	
3) General Admin (Est Rate:)		27.0%				\$5,183	
TOTAL LABOR CHARGES						\$36,668	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle	1200	# Miles		\$0.25	\$300	
	Flight		#Trips		\$250	\$0	
	Auto Rental		#Times		\$35	\$0	
SUBTOTAL TRAVEL						\$300	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		96	#Hours	\$35	\$3,360
			Materials	LS		\$300	
			Reproduction	LS		\$0	
SUBTOTAL OTHER EXPENSES						\$3,660	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours		\$0	\$0	
	Supervisor	0	Hours		\$0	\$0	
	Senior Architect/Engineer	0	Hours		\$0	\$0	
	Architect/Engineer	0	Hours		\$0	\$0	
	Technician / Drafter/CADD	0	Hours		\$0	\$0	
	Secretary	0	Hours		\$0	\$0	
	other	0	Hours		\$0	\$0	
	labor subtotal					\$0	
b. Materials			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)						\$1,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$1,000	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$41,628	
12) Contingency, Account 30.A.A.		20%				\$8,326	
13) TOTAL FOR OFFICE						\$49,954	

TASK WORKSHEET

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK: Blue River FDM
OFFICE: Civil and Environmental Design Section

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
General Design Conference			16				
Coordination Meetings		4	12				
Contractor Operations Plate					40		
-Access Roads			24			2	
-Clearing, Surfacing			12				
-Contractor Work Areas			24			2	
-Contractor Staging Areas			24			2	
Environmental Protection Inputs							
-Sediment Abatement Plan for Site Work		24				2	
-Erosion Control Plan for Site Work		24				2	
-Solid Waste Disposal			24			2	
-Haz Waste Disposal			24			2	
Construction Sequence Plate					40		
-Drawdown		4	24			2	
-Diversion		4	24			2	
-Initial Season's Work		4	24			2	
-Winter Pool Preparation		4	24			2	
-Summer Cleanup		4	24			2	
HTRW					16		
-Review of Feasibility Findings			24			2	
-Develop Anticipated Drawdown Findings			24			2	
-Define Cleanup Requirements			24			2	
	0	72	352	0	96	30	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

-includes civil, HTRW, and construction text
-includes quantity estimates
-includes site visits

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Electrical Design				DD	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	12	Hours	\$44	\$528	
	Architect/Engineer	12	66	Hours	\$37	\$2,442	
	Architect/Engineer	11	84	Hours	\$34	\$2,856	
	Technician	7/ 9	80	Hours	\$26	\$2,080	
	Secretary	5/6	12	Hours	\$17	\$204	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$8,110	
2) Tech Indirect (Est Rate:)		64.0%				\$5,190	
3) General Admin (Est Rate:)		27.0%				\$2,190	
TOTAL LABOR CHARGES						\$15,490	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
		Govt Vehicle	400	# Miles	\$0.25	\$100	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$100	
OTHER EXPENSES:							
5) Graphics						\$100	
6) Misc Expenses		CADD		80	#Hours	\$35	\$2,800
		Materials		LS		\$100	
		Reproduction		LS		\$100	
SUBTOTAL OTHER EXPENSES						\$3,100	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	0	Hours	\$0	\$0	
	Supervisor	0	0	Hours	\$0	\$0	
	Senior Architect/Engineer	0	0	Hours	\$0	\$0	
	Architect/Engineer	0	0	Hours	\$0	\$0	
	Technician / Drafter/CADD	0	0	Hours	\$0	\$0	
	Secretary	0	0	Hours	\$0	\$0	
	other	0	0	Hours	\$0	\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$18,690	
12) Contingency, Account 30.A.A.		20%				\$3,738	
13) TOTAL FOR OFFICE						\$22,428	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River FDM
OFFICE:	Electrical Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Review		4	12	4			
Coordination Meetings		4	6	12		2	
General Design Conference			8				
Site Visits			8	8			
Review Previous Documents			2	4			
Load Analysis			2	8			
Main Feeder Design			2	4			
Prepare Plates (2)		2	4	12	80		
Prepare Text		2	8	24		6	
Estimate Quantities			4	8			
Coordination with OP-V			6			2	
Coordination with Lane Elec			4			2	
	0	12	66	84	80	12	0

[illegible]

REMARKS

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Mechanical Design				DF	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	28	Hours	\$44	\$1,232	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	354	Hours	\$34	\$12,036	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	12	Hours	\$17	\$204	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$13,472	
2) Tech Indirect (Est Rate:)		64.0%				\$8,622	
3) General Admin (Est Rate:)		27.0%				\$3,637	
TOTAL LABOR CHARGES						\$25,732	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle	300	# Miles	\$0.25		\$75	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$75	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		160	#Hours	\$35	\$5,600
		Materials		LS		\$500	
		Reproduction		LS		\$500	
SUBTOTAL OTHER EXPENSES						\$6,600	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$32,407	
12) Contingency, Account 30.A.A.		10%				\$3,241	
13) TOTAL FOR OFFICE						\$35,647	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River FDM
OFFICE:	Mechanical Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
design gates, operators, security covers				24		2	
write Mechanical section				34		8	
4 FDM plates		4		160			
coordination/meetings		6		8		2	
site visit				8			
review		16					
fuse design		2		96			
quantities				8			
O&M requirements				8			
General Design Conference				8			
	0	28	0	354	0	12	0

[illegible]

REMARKS

BUDGET WORKSHEET						9-Nov-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Structural and Architectural Design				DG	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	132	Hours	\$44	\$5,808	
	Architect/Engineer	12	636	Hours	\$37	\$23,532	
	Architect/Engineer	11	180	Hours	\$34	\$6,120	
	Technician	7/ 9	88	Hours	\$26	\$2,288	
	Secretary	5/6	96	Hours	\$17	\$1,632	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$39,380	
2) Tech Indirect (Est Rate:)		64.0%				\$25,203	
3) General Admin (Est Rate:)		27.0%				\$10,633	
TOTAL LABOR CHARGES						\$75,216	
TRAVEL:							
4) Travel & Transportation		Per Deim		4	# Days	\$75	\$300
	Govt Vehicle	400	# Miles	\$0.25		\$100	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$400	
OTHER EXPENSES:							
5) Graphics						\$9,000	
6) Misc Expenses		CADD		64	#Hours	\$35	\$2,240
		Materials		LS		\$5,000	
		Reproduction		LS		\$10,000	
SUBTOTAL OTHER EXPENSES						\$26,240	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	4	Hours	\$115		\$460	
	Supervisor	128	Hours	\$100		\$12,800	
	Senior Architect/Engineer	688	Hours	\$85		\$58,480	
	Architect/Engineer	832	Hours	\$61		\$50,752	
	Technician / Drafter/CADD	384	Hours	\$66		\$25,344	
	Secretary	16	Hours	\$29		\$464	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$148,300	
b. Materials		LS				\$7,500	
c. Transportation		LS				\$2,000	
d. Profit		10.0%				\$15,780	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$173,580	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$275,436	
12) Contingency, Account 30.A.A.		10%				\$27,544	
13) TOTAL FOR OFFICE						\$302,979	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Structural and Architectural Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
	General Design Conference			32				
	review		48	72	24			
	coordination, TM		24	192			40	
	meetings		16	36	28	8		
	A/E D.O. prepare/estimate/negotiate		16	80		4	24	
	A/E D.O. coordinate/review		16	96	40	40	24	
	agency corespondance/presentations		8	48		12	8	
	site visits			16	16			
	VE changes			40	8	24		
	write FDM text sections		4	8	40			
	schedules			16	24			
		0	132	636	180	88	96	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	management	4	16				16	
	review		16					
	coordination		16					
	meetings		16	32	32			
	background/previous documents			24	24			
	develop design criteria		24					
	alternative investigation		8	8	40			
	preliminary design and layout			80	120			
	detailed design and analysis			80	192			
	steel design details			24	80			
	seismic FEM analysis			240				
	write structural sectionn text			20	120			
	prepare 8 CADD plates				96	384		
	calculate quantities			4	32			
	site visit		16	16	16			
	study existing rebar splices under seismic loads		16	160	80			
	A/E LABOR TOTALS	4	128	688	832	384	16	0
REMARKS								
		<p>- FEM computer costs of \$5000 included in A/E materials</p> <p>- 2 A/E delivery orders under \$150K each will be used</p>						

BUDGET WORKSHEET

25-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River FDM

ORG CODE

OFFICE: H & H Branch

DK

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	96 Hours	\$52	\$4,992
Section Chief	13	0 Hours	\$44	\$0
Architect/Engineer	12	0 Hours	\$37	\$0
Architect/Engineer	11	0 Hours	\$34	\$0
Technician	7/ 9	0 Hours	\$26	\$0
Secretary	5/6	48 Hours	\$17	\$816
other		0 Hours	\$12	\$0

Subtotal In-House Direct Labor

2) Tech Indirect (Est Rate:) 64.0% \$3,717

3) General Admin (Est Rate:) 27.0% \$1,568

TOTAL LABOR CHARGES**\$11,093****TRAVEL:**

4) Travel & Transportation

Per Deim	0	# Days	\$75	\$0
Govt Vehicle	0	# Miles	\$0.25	\$0
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL**\$0****OTHER EXPENSES:**

5) Graphics \$0

6) Misc Expenses

CADD	0	#Hours	\$35	\$0
Materials		LS		\$0
Reproduction		LS		\$0

SUBTOTAL OTHER EXPENSES**\$0****CONTRACTS & OTHER COE:**

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor	Principal	0 Hours	\$0	\$0
	Supervisor	0 Hours	\$0	\$0
	Senior Architect/Engineer	0 Hours	\$0	\$0
	Architect/Engineer	0 Hours	\$0	\$0
	Technician / Drafter/CADD	0 Hours	\$0	\$0
	Secretary	0 Hours	\$0	\$0
	other	0 Hours	\$0	\$0
	labor subtotal			\$0
b. Materials		LS		\$0
c. Transportation		LS		\$0
d. Profit		10.0%		\$0

9) Other Corps Payments (eg. 2544's)

10) Other Government Payments (eg. 1144's)

SUBTOTAL CONTRACTS & OTHER COE**\$0****SUMMARY**

11) Total Estimated Cost for Account 30.A. \$11,093

12) Contingency, Account 30.A.A. 10% \$1,109

13) TOTAL FOR OFFICE \$12,203

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Hydraulic Design				DL	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	115	Hours	\$44	\$5,060	
	Architect/Engineer	12	400	Hours	\$37	\$14,800	
	Architect/Engineer	11	1038	Hours	\$34	\$35,292	
	Technician	7/ 9	40	Hours	\$26	\$1,040	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$56,192	
2) Tech Indirect (Est Rate:)		64.0%				\$35,963	
3) General Admin (Est Rate:)		27.0%				\$15,172	
TOTAL LABOR CHARGES						\$107,327	
TRAVEL:							
4) Travel & Transportation		Per Deim		13	# Days	\$75	\$975
	Govt Vehicle	800	# Miles	\$0.25		\$200	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$1,175	
OTHER EXPENSES:							
5) Graphics						\$2,500	
6) Misc Expenses		CADD		40	#Hours	\$35	\$1,400
			Materials	LS		\$500	
			Reproduction	LS		\$500	
SUBTOTAL OTHER EXPENSES						\$4,900	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Contracts			LS			\$0	
c. Transportation			LS			\$0	
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)		WES				\$30,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$30,000	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$143,402	
12) Contingency, Account 30.A.A.		5%				\$7,170	
13) TOTAL FOR OFFICE						\$150,572	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River FDM
OFFICE:	Hydraulic Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
Diverson							
Hydraulic design		10	40	120			
Tower Features							
Design		20	80	200			
Hydraulic analysis		20	40	120			
Coordination			40	80			
Instrumentation							
Design and Quantities		5	20	100			
plate		0	0	20	40		
Coordination		0	10	40			
WES (in house support)		0	20	40			
Report							
Text		0	40	120			
Coordination and Meetings		20	40	120			
Review		20	40	40			
Site Visits		20	30	30			
General Design Conference				8			
	0	115	400	1038	40	0	0

	HOURS						
A/E LABOR ACTIVITY	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

- \$30k for WES analysis and study

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Reservoir Regulation & Water Quality				DR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	28	Hours	\$44	\$1,232	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	200	Hours	\$34	\$6,800	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$8,032	
2) Tech Indirect (Est Rate:)		64.0%				\$5,140	
3) General Admin (Est Rate:)		27.0%				\$2,169	
TOTAL LABOR CHARGES						\$15,341	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$0	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$115	\$0		
	Supervisor	40	Hours	\$100	\$4,000		
	Senior Architect/Engineer	80	Hours	\$85	\$6,800		
	Architect/Engineer	240	Hours	\$61	\$14,640		
	Technician / Drafter/CADD	0	Hours	\$66	\$0		
	Secretary	0	Hours	\$29	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$25,440	
b. Materials (lab tests)		LS				\$12,000	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$3,744	
9) Other Corps Payments (eg. 2544's)						\$20,000	
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$61,184	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$76,525	
12) Contingency, Account 30.A.A.		20%				\$15,305	
13) TOTAL FOR OFFICE						\$91,830	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Reservoir Regulation & Water Quality						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
instream instrumentation coordination with USGS			8		60			
diversion plan water quality text			12		80			
water quality study S&A			8		60			
		0	28	0	200	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
water quality study, provide report			40	80	240			
A/E LABOR TOTALS		0	40	80	240	0	0	0
REMARKS		<div style="text-align: center;"> <p>- 1 A/E delivery order under \$150K</p> <p>- does not include analysis of changes to Selective Withdrawal System</p> <p>- WES water quality analysis \$20K</p> </div>						
BEDM XI W								

BEDM XLW

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Hydrologic, Coastal & River				DN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	140	Hours	\$44	\$6,160	
	Architect/Engineer	12	184	Hours	\$37	\$6,808	
	Architect/Engineer	11	890	Hours	\$34	\$30,260	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$43,228	
2) Tech Indirect (Est Rate:)		64.0%				\$27,666	
3) General Admin (Est Rate:)		27.0%				\$11,672	
TOTAL LABOR CHARGES						\$82,565	
TRAVEL:							
4) Travel & Transportation		Per Deim		4	# Days	\$75	\$300
	Govt Vehicle	600	# Miles		\$0.25	\$150	
	Flight		#Trips		\$250	\$0	
	Auto Rental		#Times		\$35	\$0	
SUBTOTAL TRAVEL						\$450	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
			Materials	LS		\$900	
			Reproduction	LS		\$0	
SUBTOTAL OTHER EXPENSES						\$900	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours		\$0	\$0	
	Supervisor	0	Hours		\$0	\$0	
	Senior Architect/Engineer	0	Hours		\$0	\$0	
	Architect/Engineer	0	Hours		\$0	\$0	
	Technician / Drafter/CADD	0	Hours		\$0	\$0	
	Secretary	0	Hours		\$0	\$0	
	other	0	Hours		\$0	\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$83,915	
12) Contingency, Account 30.A.A.		10%				\$8,392	
13) TOTAL FOR OFFICE						\$92,307	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Hydrologic, Coastal & River						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Coordination								
General					80			
Meetings (a 1 year duration)					30			
Flood Control Analysis of Diversion Scheme								
Coordination w/RCC (Modified Control)					20			
Flood Routings			20		160			
flood Frequency Analysis by month			20		160			
Conservation Analysis of Diversion Scheme								
Coordination w/RCC (Modified Conservation)					40			
Conservation Routings (Monthly flows)								
Model set up			10		80			
Routings/tabulate results			20		120			
Sedimentation analysis of diversion			20	120				
Site Visit			20	40	40			
Text			10	20	80			
Review			20		40			
Revise/Incorporate Comments				4	20			
Closeout files					20			
		0	140	184	890	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Geotechnical Engineering				CJ	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	104 Hours		\$52	\$5,408	
	STL	13	319 Hours		\$44	\$14,036	
	Geol/Engr-Scien	12	632 Hours		\$37	\$23,384	
	Geol/Engr-Scien	11	292 Hours		\$34	\$9,928	
	Technician	7/9	104 Hours		\$26	\$2,704	
	Secretary	5/6	42 Hours		\$17	\$714	
	other		0 Hours		\$12	\$0	
Subtotal In-House Direct Labor						\$56,174	
2) Tech Indirect (Est Rate:)			64.0%		\$35,951		
3) General Admin (Est Rate:)			27.0%		\$15,167		
TOTAL LABOR CHARGES						\$107,292	
TRAVEL:							
4) Travel & Transportation		Per Diem		4 # Days	\$75	\$300	
		Govt Vehicle		1600 # Miles	\$0.25	\$400	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$700	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		104 #Hours	\$35	\$3,640	
		Materials		1 LS		\$15,050	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$18,690	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours		\$0	\$0	
	Supervisor	0	Hours		\$0	\$0	
	Senior Geol/Engr-Scien	0	Hours		\$0	\$0	
	Geol/Engr-Scien	0	Hours		\$0	\$0	
	Technician / Drafter/CADD	0	Hours		\$0	\$0	
	Secretary	0	Hours		\$0	\$0	
	other (survey)	0	Hours		\$0	\$15,000	
	labor subtotal					\$15,000	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		0.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$15,000	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$141,682	
12) Contingency, Account 30.A.A.		10%				\$14,168	
13) TOTAL FOR OFFICE						\$155,851	

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River FDM
OFFICE:	Geotechnical Engineering

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BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Economics				ED	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	40	Hours	\$44	\$1,760	
	Architect/Engineer	12	192	Hours	\$37	\$7,104	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$8,864	
2) Tech Indirect (Est Rate:)		64.0%				\$5,673	
3) General Admin (Est Rate:)		27.0%				\$2,393	
TOTAL LABOR CHARGES						\$16,930	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle		0	# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$0	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours		\$0	\$0	
	Supervisor	0	Hours		\$0	\$0	
	Senior Architect/Engineer	0	Hours		\$0	\$0	
	Architect/Engineer	0	Hours		\$0	\$0	
	Technician / Drafter/CADD	0	Hours		\$0	\$0	
	Secretary	0	Hours		\$0	\$0	
	other	0	Hours		\$0	\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$16,930	
12) Contingency, Account 30.A.A.		10%				\$1,693	
13) TOTAL FOR OFFICE						\$18,623	

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River FDM
OFFICE:	Economics

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BEDM XLW

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Fish and Wildlife				EN	
DIRECT CHARGES:							
1) a. Labor		Amount	Staff Average	\$ Amount			
	Branch Chief	14	0 Hours	\$52	\$0		
	Section Chief	13	10 Hours	\$44	\$440		
	Architect/Engineer	12	140 Hours	\$37	\$5,180		
	Architect/Engineer	11	0 Hours	\$34	\$0		
	Technician	7/ 9	0 Hours	\$26	\$0		
	Secretary	5/6	0 Hours	\$17	\$0		
	other		0 Hours	\$12	\$0		
Subtotal In-House Direct Labor					\$5,620		
2) Tech Indirect (Est Rate:)		64.0%			\$3,597		
3) General Admin (Est Rate:)		27.0%			\$1,517		
TOTAL LABOR CHARGES					\$10,734		
TRAVEL:							
4) Travel & Transportation		Per Deim	3 # Days	\$75	\$225		
		Govt Vehicle	1000 # Miles	\$0.25	\$250		
		Flight	#Trips	\$250	\$0		
		Auto Rental	#Times	\$35	\$0		
SUBTOTAL TRAVEL					\$475		
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD	0 #Hours	\$35	\$0		
		Materials	LS		\$0		
		Reproduction	LS		\$0		
SUBTOTAL OTHER EXPENSES					\$0		
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount	Staff Average	\$ Amount			
a. Labor	Principal	0 Hours	\$0	\$0			
	Supervisor	0 Hours	\$0	\$0			
	Senior Architect/Engineer	0 Hours	\$0	\$0			
	Architect/Engineer	0 Hours	\$0	\$0			
	Technician / Drafter/CADD	0 Hours	\$0	\$0			
	Secretary	0 Hours	\$0	\$0			
	other	0 Hours	\$0	\$0			
	labor subtotal			\$0			
b. Materials		LS		\$0			
c. Transportation		LS		\$0			
d. Profit		10.0%		\$0			
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE					\$0		
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$11,209	
12) Contingency, Account 30.A.A.		10%		\$1,121			
13) TOTAL FOR OFFICE					\$12,330		

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Fish and Wildlife						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
internal coordination meetings			2	20				
agency coordination meetings			2	20				
develop measures to reduce fish impacts			2	40				
site visits			2	20				
Cultural Resource Coordination			2	40				
		0	10	140	0	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BEDM XLW

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Environmental Planning				EM	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	4	Hours	\$37	\$148	
	Architect/Engineer	11	88	Hours	\$34	\$2,992	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$3,140	
2) Tech Indirect (Est Rate:)		64.0%				\$2,010	
3) General Admin (Est Rate:)		27.0%				\$848	
TOTAL LABOR CHARGES						\$5,997	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle	0	# Miles	\$0.25		\$0	\$0
	Flight		#Trips	\$250		\$0	\$0
	Auto Rental		#Times	\$35		\$0	\$0
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials	LS			\$0	\$0
		Reproduction	LS			\$0	\$0
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	\$0
	Supervisor	0	Hours	\$0		\$0	\$0
	Senior Architect/Engineer	0	Hours	\$0		\$0	\$0
	Architect/Engineer	0	Hours	\$0		\$0	\$0
	Technician / Drafter/CADD	0	Hours	\$0		\$0	\$0
	Secretary	0	Hours	\$0		\$0	\$0
	other	0	Hours	\$0		\$0	\$0
	labor subtotal					\$0	\$0
b. Materials		LS				\$0	\$0
c. Transportation		LS				\$0	\$0
d. Profit		10.0%				\$0	\$0
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$5,997					
12) Contingency, Account 30.A.A.		50%				\$2,999	
13) TOTAL FOR OFFICE						\$8,996	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Environmental Planning						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
review FDM					16			
attend meetings (design/material changes)					16			
advise if environmental documents are req'd				4	16			
prepare section 404					40			
		0	0	4	88	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS		-additional funding would be required if additional documents are needed (high cont. %)						

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Technical Resources Branch				CR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	32	Hours	\$44	\$1,408	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	108	Hours	\$34	\$3,672	
	Technician	7/ 9	544	Hours	\$26	\$14,144	
	Secretary	5/6	32	Hours	\$17	\$544	
	Stay-In-School	3/4	80	Hours	\$12	\$960	
Subtotal In-House Direct Labor						\$20,728	
2) Tech Indirect (Est Rate:)		64.0%				\$13,266	
3) General Admin (Est Rate:)		27.0%				\$5,597	
TOTAL LABOR CHARGES						\$39,590	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle	0	# Miles	\$0.25		\$0	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$0	
		Reproduction		LS		\$0	
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$39,590	
12) Contingency, Account 30.A.A.		10%				\$3,959	
13) TOTAL FOR OFFICE						\$43,550	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River FDM						
OFFICE:		Technical Resources Branch						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
	CR							
	4 A/E delivery orders		32		108	528	32	80
	CP							
	budget management					16		
	CQ							
		0	32	0	108	544	32	80
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS		<p>- 4 A/E delivery orders under \$150K each will be supported</p>						

BUDGET WORKSHEET						9-Nov-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River FDM				ORG CODE	
OFFICE:		Real Estate				BU	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Division Ch.	13	12	Hours	\$42	\$504	
	Branch Ch.	12	80	Hours	\$36	\$2,840	
	Attorney	13	0	Hours	\$39	\$0	
			0	Hours	\$0	\$0	
	Technician	11	8	Hours	\$33	\$260	
	Secretary	5/6	8	Hours	\$17	\$132	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$3,736	
2) Tech Indirect (Est Rate:)		68.0%				\$2,540	
3) General Admin (Est Rate:)		18.0%				\$674	
TOTAL LABOR CHARGES						\$6,950	
TRAVEL:							
4) Travel & Transportation		Per Diem		0	# Days	\$75	\$0
		Govt Vehicle	400	# Miles	\$0.25	\$100	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$100	
OTHER EXPENSES:							
5) Graphics		\$0					
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials	1	LS		\$0	
		Reproduction		LS		\$50	
SUBTOTAL OTHER EXPENSES						\$50	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Geol/Engr-Scien	0	Hours	\$0	\$0		
	Geol/Engr-Scien	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other (survey)	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		0.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.		\$7,100					
12) Contingency, Account 30.A.A.		10%				\$700	
13) TOTAL FOR OFFICE						\$7,800	

[illegible]

BFDM.XLW

BASELINE SCOPE OF WORK							
PROJECT: Blue River Temperature Control						DATE PREPARED: 8/29/94	
SUBPRODUCT TITLE: Plans and Specifications						SUBPRODUCT #/WBS ID: WTC BWI	
TECHNICAL MANAGER: Karl Swanson		OFFICE/OBS: NPP-PE-DS		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM	
SUBPRODUCT SUMMARY DESCRIPTION: (see attached)							
<p>- PMP Worksheet (summary, total cost by office)</p> <p>- Specific product outline (plates, text, drawings, specifications)</p> <p>- Individual office Budget and Task Worksheets</p>							
UPWARD REPORTED MILESTONES		% OMP	INTERNAL MILESTONES			% COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE:
		FY99	FY00	FY01	FY02	FY03	TOTAL
CONSTRUCTION COST							
		CONTINGENCY					
		TOTAL CONSTR. COST					
		0.1	0.8	0.1			
BASELINE ALLOCATION *		85	677	85			847
		CONTINGENC					93
		TOTAL ESTIMATE					940
Submitted:				Approved:			
(Technical Manager)		(Date)		(Project\Study Manager)		(Date)	

A.9

PMP WORKSHEET

PROJECT: Willamette River Temperature Control Feasibility Study

LEAD: CENPP-PE-DS

Swanson

TASK: Blue River Plans and Specifications

Organization	Office Symbol	Org Code	COSTS					
			Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$20,032	\$200	\$150	\$25,898	\$4,628	\$50,909
Design Branch	PE-D	DB	\$12,957	\$0	\$0	\$0	\$1,296	\$14,253
Civil/Land. Design	PE-DC	DC	\$43,315	\$250	\$7,000	\$0	\$10,113	\$60,678
Electrical Design	PE-DE	DD	\$63,580	\$350	\$13,370	\$0	\$15,460	\$92,760
Mechanical Design	PE-DM	DF	\$35,125	\$75	\$7,300	\$0	\$4,250	\$46,750
Struct/Arch Des.	PE-DS	DG	\$105,050	\$400	\$32,260	\$214,106	\$35,182	\$386,998
H & H Branch	PE-H	DK	\$3,958	\$0	\$0	\$0	\$396	\$4,353
Hydraul. Design	PE-HD	DL	\$49,209	\$475	\$4,600	\$0	\$2,714	\$56,998
Res. Regulation	PE-HR	DR	\$0	\$0	\$0	\$0	\$0	\$0
Hydrology	PE-HY	DN	\$0	\$0	\$0	\$0	\$0	\$0
Geotech Branch	PE-G	CJ	\$117,354	\$900	\$4,810	\$0	\$12,306	\$135,371
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$0	\$0
Fish & Wildf	PE-RR	EN	\$14,187	\$300	\$0	\$0	\$1,449	\$15,936
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$0	\$0
Tech. Branch	PE-T		\$33,486	\$0	\$5,000	\$0	\$3,849	\$42,335
Project	OP-V	JB	\$1,500	\$0	\$0	\$0	\$0	\$1,500
Real Estate	RE-AP	BU	\$14,275	\$200	\$25	\$0	\$1,500	\$16,000
Contract Admin	CT-C	NG	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Contract Procuremen	CT-P	ND	\$4,000	\$0	\$0	\$0	\$0	\$4,000
Construction	CO-SC	FE	\$7,000	\$0	\$0	\$0	\$0	\$7,000
TOTALS			\$529,029	\$3,150	\$74,515	\$240,005	\$93,142	\$939,841

BLUE RIVER P&S SCOPE OF WORK

DRAWINGS

1	DS Cover
2	DS Index and Notes
3	DC Site Map
4	DC Roads and Traffic Control
5	DC Diversion and Water Control
6	DC Grading Plan
7	G Excavation
8	G Treatment
9	DS Intake Structure General
10	DS Concrete and Reinforcement Notes
11	DS Demolition I
12	DS Demolition II
13	DS Plan and Elevations
14	DS Sections I
15	DS Sections II
16	DS Deck Plan
17	DS RO Trashrack
18	DS Reinforcement Plan and Elevations
19	DS Reinforcement Sections I
20	DS Reinforcement Sections II
21	DS Reinforcement Deck Plan
22	DS Reinforcement RO Trashrack
23	DS Misc. Metal
24	DS Structural Steel - Diversion Trashrack
25	DS Structural Steel - Penstock Trashrack
26	DS Structural Steel - Wetwell Trashrack
27	DM Equipment Plan
28	DM Temperature Control Gates
29	DM Bypass Gates
30	DM Fuse Panel
31	HD Instrumentation
32	DE One-Line Diagram
33	DE Control Schematics
34	DE Motor Control Center
35	DE Plans I
36	DE Plans II
37	DE Elevations I
38	DE Elevations II
39	DE Sections and Details I
40	DE Sections and Details II
41	DE Conduit and Cable Schedule
42	HD Project Characteristics
43	HD Project Hydrographs

BLUE RIVER P&S SCOPE OF WORK cont...

SPECIFICATIONS

Bidding Requirements, Contract Forms, Conditions

00010 T Solicitation

00100 T Instructions to Bidders

00700 T Contract Clauses

00750 T Rates of Wages

00800 T Special Clauses

DIVISION I - GENERAL REQUIREMENTS

01200 T General Requirements

01230 T Safety

01300 DS Measurement and Payment

01301 T Sources for Reference Publications

01302 T Submittal Descriptions

01305 T Submittal Procedures

01400 DC Contractors Operations

01430 DC Environmental Protection

01440 T Contractor Quality Control

01500 T Quality Assurance

DIVISION 2 - SITE WORK

02100 DC Roadways

02130 DC Care and Diversion of Water

02150 DC Paving and Leveling

02200 G Excavation

02250 G Foundation Treatment

02271 DC Stone Slope Protection

02300 DS Demolition

02500 G Embankment Cofferdam

DIVISION 3 - CONCRETE

03100 G Formwork for Concrete

03200 G Concrete Reinforcement

03250 G Waterstops and Joints in Concrete

03300 G Concrete

DIVISION 5 - METALS

05120 DS Structural Steel and Misc. Metal

05500 DS Metalwork Fabrication and Machine Work

DIVISION 9 - FINISHES

09940 DS Painting

DIVISION 13 - SPECIAL CONSTRUCTION

13080 DM Seismic Protection for Mechanical and Electrical
DE Equipment

13220 HD Instrumentation

DIVISION 15 - MECHANICAL

15095 DM Sluice Gates and Operators

15099 DM Fuse Panel

DIVISION 16 - ELECTRICAL

16050 DE General

16390 DE Transformer

16500 DE Lighting

16920 DE Motor Control Centers

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	40	Hours	\$48	\$1,920	
	Cost Engineer	12	204	Hours	\$42	\$8,568	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$10,488	
2) Tech Indirect (Est Rate:)		64.0%				\$6,712	
3) General Admin (Est Rate:)		27.0%				\$2,832	
TOTAL LABOR CHARGES						\$20,032	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	200	# Miles	\$0.25		\$50	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$200	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS		\$50	
		Reproduction		LS		\$100	
SUBTOTAL OTHER EXPENSES						\$150	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	32	Hours	\$80		\$2,560	
	Project Manager	0	Hours	\$72		\$0	
	Senior Cost Engineer	272	Hours	\$65		\$17,680	
	Cost Engineer	0	Hours	\$53		\$0	
	Jr Cost Engineer	0	Hours	\$36		\$0	
	Technician	40	Hours	\$31		\$1,240	
	Secretary	32	Hours	\$27		\$864	
	labor subtotal					\$22,344	
b. Materials		LS				\$200	
c. Transportation		LS				\$1,000	
d. Profit		10.0%				\$2,354	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$25,898	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$46,280	
12) Contingency, Account 30.A.A.		10%				\$4,628	
13) TOTAL FOR OFFICE						\$50,909	

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River Plans and Specifications
OFFICE:	Cost Engineering Branch

		HOURS						
A/E LABOR ACTIVITY	Prin.	PM	Sr CE	CE	Jr CE	Tech	Secr	
Management	8						32	
Review	8							
Coordination	8							
Meetings			8					
Review Plans & Specs & Check Quantities			24			40		
Site Visit			12					
Construction Methods & Narratives			24					
Labor Wage Rate Updates			8					
Crews			24					
MCACES & Documentation of Costs			140					
Review, Check, & Provide Cost Backup Data	8		32					
A/E LABOR TOTALS	32	0	272	0	0	40	32	

- 1 A/E delivery order under \$150K

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	120	Hours	\$52	\$6,240	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	32	Hours	\$17	\$544	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$6,784	
2) Tech Indirect (Est Rate:)			64.0%		\$4,342		
3) General Admin (Est Rate:)			27.0%		\$1,832		
TOTAL LABOR CHARGES						\$12,957	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials			LS		
		Reproduction			LS		
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%		\$0			
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$12,957	
12) Contingency, Account 30.A.A.		10%		\$1,296			
13) TOTAL FOR OFFICE						\$14,253	

BUDGET WORKSHEET							25-Aug-94
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications			ORG CODE		
OFFICE:		Civil and Environmental Design Section			DC		
DIRECT CHARGES:							
1) a. Labor		Amount	Staff Average	\$ Amount			
	Branch Chief 14	0 Hours	\$52				\$0
	Section Chief 13	40 Hours	\$44				\$1,760
	Architect/Engineer 12	184 Hours	\$37				\$6,808
	Architect/Engineer 11	192 Hours	\$34				\$6,528
	Technician 7/ 9	272 Hours	\$26				\$7,072
	Secretary 5/6	30 Hours	\$17				\$510
	other	0 Hours	\$12				\$0
Subtotal In-House Direct Labor							\$22,678
2) Tech Indirect (Est Rate:)		64.0%					\$14,514
3) General Admin (Est Rate:)		27.0%					\$6,123
TOTAL LABOR CHARGES							\$43,315
TRAVEL:							
4) Travel & Transportation		Per Deim	# Days	\$75	\$0		
	Govt Vehicle 1000	# Miles	\$0.25				\$250
	Flight	#Trips	\$250				\$0
	Auto Rental	#Times	\$35				\$0
SUBTOTAL TRAVEL							\$250
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD 200	#Hours	\$35	\$7,000		
		Materials	LS				
		Reproduction	LS				
SUBTOTAL OTHER EXPENSES							\$7,000
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount	Staff Average	\$ Amount			
a. Labor	Principal	0 Hours	\$0				\$0
	Supervisor	0 Hours	\$0				\$0
	Senior Architect/Engineer	0 Hours	\$0				\$0
	Architect/Engineer	0 Hours	\$0				\$0
	Technician / Drafter/CADD	0 Hours	\$0				\$0
	Secretary	0 Hours	\$0				\$0
	other	0 Hours	\$0				\$0
	labor subtotal						\$0
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%					\$0
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE							\$0
SUMMARY							
11) Total Estimated Cost for Account 30.A.							\$50,565
12) Contingency, Account 30.A.A.		20%					\$10,113
13) TOTAL FOR OFFICE							\$60,678

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River Plans and Specifications
OFFICE:	Civil and Environmental Design Section

[illegible]

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0

REMARKS

- site visit labor included in the above

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Electrical Design				DD	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	44	Hours	\$44	\$1,936	
	Architect/Engineer	12	200	Hours	\$37	\$7,400	
	Architect/Engineer	11	406	Hours	\$34	\$13,804	
	Technician	7/ 9	372	Hours	\$26	\$9,672	
	Secretary	5/6	28	Hours	\$17	\$476	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$33,288	
2) Tech Indirect (Est Rate:)		64.0%				\$21,304	
3) General Admin (Est Rate:)		27.0%				\$8,988	
TOTAL LABOR CHARGES						\$63,580	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days		\$75	
	Govt Vehicle	800	# Miles	\$0.25		\$200	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$350	
OTHER EXPENSES:							
5) Graphics						\$250	
6) Misc Expenses		CADD		372 #Hours		\$35	
		Materials		LS		\$100	
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$13,370	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$77,300	
12) Contingency, Account 30.A.A.		20%				\$15,460	
13) TOTAL FOR OFFICE						\$92,760	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River Plans and Specifications						
OFFICE:		Electrical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Review			16	24	16		8	
Coordination and Meetings			16	48	24			
Site Visits				8	24			
Load Analysis				2	4			
Short-Circuit Analysis				4	8			
Main Feeder Design				2	4			
Branch Circuit Design				4	8			
Motor Control Center Design				8	24			
Lighting Calculations				2	6			
Prepare Drawings								
One-Line (1)			1	6	16	32		
2 Control Schematics (1)			1	8	24	48		
Motor Control Center (1)			1	8	32	48		
Plan Views (2)			2	8	48	80		
Elevations (2)			2	8	40	80		
Sections and Details (2)			2	4	16	60		
Conduit and Cable Schedule (1)			1	4	8	24		
Prepare Specifications								
Section 16050 General				8	16		4	
Section 16390 Transformer			1	6	24		4	
Section 16500 Lighting				4	8		4	
Section 16920 Motor Control Centers			1	8	24		4	
Estimate Quantities				2	16			
Coordination with OP-V				8	16		2	
Coordination with Lane Elec				8			2	
ECIFP				8				
		0	44	200	406	372	28	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET										25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Blue River Plans and Specifications						ORG CODE			
OFFICE:		Mechanical Design						DF			
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief		14		0		Hours		\$52	
		Section Chief		13		20		Hours		\$44	
		Architect/Engineer		12		0		Hours		\$37	
		Architect/Engineer		11		508		Hours		\$34	
		Technician		7/ 9		0		Hours		\$26	
		Secretary		5/6		14		Hours		\$17	
		other				0		Hours		\$12	
Subtotal In-House Direct Labor										\$18,390	
2) Tech Indirect (Est Rate:)						64.0%				\$11,770	
3) General Admin (Est Rate:)						27.0%				\$4,965	
TOTAL LABOR CHARGES										\$35,125	
TRAVEL:											
4) Travel & Transportation											
		Per Deim						# Days		\$75	
		Govt Vehicle		300				# Miles		\$0.25	
		Flight						#Trips		\$250	
		Auto Rental						#Times		\$35	
SUBTOTAL TRAVEL										\$75	
OTHER EXPENSES:											
5) Graphics											
6) Misc Expenses											
		CADD		180		#Hours		\$35		\$6,300	
		Materials				LS				\$500	
		Reproduction				LS				\$500	
SUBTOTAL OTHER EXPENSES										\$7,300	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal		0		Hours		\$0		\$0	
		Supervisor		0		Hours		\$0		\$0	
		Senior Architect/Engineer		0		Hours		\$0		\$0	
		Architect/Engineer		0		Hours		\$0		\$0	
		Technician / Drafter/CADD		0		Hours		\$0		\$0	
		Secretary		0		Hours		\$0		\$0	
		other		0		Hours		\$0		\$0	
		labor subtotal								\$0	
b. Materials				LS							
c. Transportation				LS							
d. Profit				10.0%						\$0	
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$42,500	
12) Contingency, Account 30.A.A.						10%				\$4,250	
13) TOTAL FOR OFFICE										\$46,750	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River Plans and Specifications						
OFFICE:		Mechanical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
design gates, operators, security covers			4		64		2	
3 specifications			4		144		8	
4 drawings			4		204			
review/comments			8		24		2	
quantities					24			
site visit					8			
meetings					24		2	
ECIFP					16			
		0	20	0	508	0	14	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

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BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Structural and Architectural Design				DG	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
Branch Chief 14		0	Hours	\$52		\$0	
Section Chief 13		216	Hours	\$44		\$9,504	
Architect/Engineer 12		776	Hours	\$37		\$28,712	
Architect/Engineer 11		320	Hours	\$34		\$10,880	
Technician 7/ 9		180	Hours	\$26		\$4,680	
Secretary 5/6		72	Hours	\$17		\$1,224	
other		0	Hours	\$12		\$0	
Subtotal In-House Direct Labor						\$55,000	
2) Tech Indirect (Est Rate:)		64.0%				\$35,200	
3) General Admin (Est Rate:)		27.0%				\$14,850	
TOTAL LABOR CHARGES						\$105,050	
TRAVEL:							
4) Travel & Transportation		Per Deim		4	# Days	\$75	\$300
		Govt Vehicle		400	# Miles	\$0.25	\$100
		Flight			#Trips	\$250	\$0
		Auto Rental			#Times	\$35	\$0
SUBTOTAL TRAVEL						\$400	
OTHER EXPENSES:							
5) Graphics						\$2,500	
6) Misc Expenses		CADD		136	#Hours	\$35	\$4,760
		Materials			LS		\$5,000
		Reproduction			LS		\$20,000
SUBTOTAL OTHER EXPENSES						\$32,260	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor Principal		4	Hours	\$115		\$460	
Supervisor		80	Hours	\$100		\$8,000	
Senior Architect/Engineer		316	Hours	\$85		\$26,860	
Architect/Engineer		1638	Hours	\$61		\$99,918	
Technician / Drafter/CADD		840	Hours	\$66		\$55,440	
Secretary		16	Hours	\$29		\$464	
other		0	Hours	\$0		\$0	
labor subtotal						\$191,142	
b. Materials		LS				\$2,500	
c. Transportation		LS				\$1,000	
d. Profit		10.0%				\$19,464	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$214,106	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$351,816	
12) Contingency, Account 30.A.A.		10%				\$35,182	
13) TOTAL FOR OFFICE						\$386,998	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River Plans and Specifications
OFFICE:	Structural and Architectural Design

DIRECT LABOR ACTIVITY	HOURS						
	14	13	12	11	9	5/6	other
review		96	64	24	24		
coordination, TM		48	288	120	96	24	
meetings		16	32	32	8		
A/E D.O. prepare/estimate/negotiate		16	96		4	8	
A/E D.O. coordinate/review		16	96	80	40	8	
agency correspondence/presentations		8	48			8	
site visit		8	32	16	8		
contractor questions, assemble notebooks				24		16	
operations coordination			96				
Engineer Considerations and Instructions for F. P.		8	24	24		8	
	0	216	776	320	180	72	0

A/E LABOR ACTIVITY	HOURS						
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
management	4	16				16	
review		16					
coordination		16					
meetings		16	32	32			
5 specification sections			40	160			
detailed design and analysis			96	900			
steel design details			24	200			
water control /diversion plan			8	40			
construction schedule			8	40			
prepare 21 CADD drawings			84	210	840		
calculate quantities			8	40			
site visit		16	16	16			
A/E LABOR TOTALS	4	80	316	1638	840	16	0

REMARKS

- 2 A/E delivery orders under \$150k each will be used

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		H & H Branch				DK	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	32	Hours	\$52	\$1,664	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	24	Hours	\$17	\$408	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$2,072	
2) Tech Indirect (Est Rate:)			64.0%		\$1,326		
3) General Admin (Est Rate:)			27.0%		\$559		
TOTAL LABOR CHARGES						\$3,958	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle			# Miles	\$0.25	\$0	
	Flight			#Trips	\$250	\$0	
	Auto Rental			#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal						\$0
b. Materials			LS				
c. Transportation			LS				
d. Profit			10.0%	\$0			
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$3,958	
12) Contingency, Account 30.A.A.						10% \$396	
13) TOTAL FOR OFFICE						\$4,353	

BUDGET WORKSHEET

25-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River P&S

ORG CODE

OFFICE: Hydraulic Design

DL

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	0 Hours	\$52	\$0
Section Chief	13	48 Hours	\$44	\$2,112
Architect/Engineer	12	180 Hours	\$37	\$6,660
Architect/Engineer	11	408 Hours	\$34	\$13,872
Technician	7/ 9	120 Hours	\$26	\$3,120
Secretary	5/6	0 Hours	\$17	\$0
other		0 Hours	\$12	\$0

Subtotal In-House Direct Labor**\$25,764**

2) Tech Indirect (Est Rate:)

64.0%

\$16,489

3) General Admin (Est Rate:)

27.0%

\$6,956

TOTAL LABOR CHARGES**\$49,209****TRAVEL:**

4) Travel & Transportation

Per Deim	5	# Days	\$75	\$375
Govt Vehicle	400	# Miles	\$0.25	\$100
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL**\$475****OTHER EXPENSES:**

5) Graphics

\$0

6) Misc Expenses

CADD	120	#Hours	\$35	\$4,200
Materials		LS		\$200
Reproduction		LS		\$200

SUBTOTAL OTHER EXPENSES**\$4,600****CONTRACTS & OTHER COE:**

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor	Principal	0 Hours	\$0	\$0
	Supervisor	0 Hours	\$0	\$0
	Senior Architect/Engineer	0 Hours	\$0	\$0
	Architect/Engineer	0 Hours	\$0	\$0
	Technician / Drafter/CADD	0 Hours	\$0	\$0
	Secretary	0 Hours	\$0	\$0
	other	0 Hours	\$0	\$0
	labor subtotal			\$0
b. Materials		LS		\$0
c. Transportation		LS		\$0
d. Profit		10.0%		\$0

9) Other Corps Payments (eg. 2544's)

\$0

10) Other Government Payments (eg. 1144's)

SUBTOTAL CONTRACTS & OTHER COE**\$0****SUMMARY**

11) Total Estimated Cost for Account 30.A.

\$54,284

12) Contingency, Account 30.A.A.

5%

\$2,714**13) TOTAL FOR OFFICE****\$56,998**

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River P&S						
OFFICE:		Hydraulic Design						
DIRECT LABOR ACTIVITY	HOURS							
	14	13	12	11	9	5/6	other	
Diversion			20	40				
Tower			40	80				
Instrumentation Specification			20	80				
Site Visits			20	20				
Coordination and Meetings		24	40	40				
Review		24	40	40				
Instrumentation Drawing				20	40			
Char. and Hydro. Drawings (Hydrology support)				40	80			
				40				
ECIFP				8				
	0	48	180	408	120	0	0	
A/E LABOR ACTIVITY	HOURS							
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other	
A/E LABOR TOTALS	0	0	0	0	0	0	0	
REMARKS								

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Geotechnical Engineering				CJ	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	106	Hours	\$52	\$5,512	
	STL	13	310	Hours	\$44	\$13,640	
	Geol/Engr -Scien	12	644	Hours	\$37	\$23,828	
	Geol/Engr -Scien	11	414	Hours	\$34	\$14,076	
	Technician	7/9	136	Hours	\$26	\$3,536	
	Secretary	5/6	50	Hours	\$17	\$850	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$61,442	
2) Tech Indirect (Est Rate:)		64.0%				\$39,323	
3) General Admin (Est Rate:)		27.0%				\$16,589	
TOTAL LABOR CHARGES						\$117,354	
TRAVEL:							
4) Travel & Transportation		Per Diem		4	# Days	\$75	\$300
		Govt Vehicle		2400	# Miles	\$0.25	\$600
		Flight			#Trips	\$250	\$0
		Auto Rental			#Times	\$35	\$0
SUBTOTAL TRAVEL						\$900	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		136	#Hours	\$35	\$4,760
		Materials		1	LS		\$50
		Reproduction			LS		
SUBTOTAL OTHER EXPENSES						\$4,810	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Geol/Engr-Scien	0	Hours	\$0		\$0	
	Geol/Engr-Scien	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS					
c. Transportation		LS					
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$123,064	
12) Contingency, Account 30.A.A.		10%				\$12,306	
13) TOTAL FOR OFFICE						\$135,371	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River Plans and Specifications						
OFFICE:		Geotechnical Engineering						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Meetings & Coordination		24	58	140	24		6	
Review Existing Data			2					
Design and Analysis		12	24	112	160			
Prepare 7 Specifications		28	88	136	74		40	
Prepare 2 Contract Drawings		6	1	56	20	136		
Calculate Quantities			8	16	24			
Interim Reviews/Revisions		24	60	120	64			
Site Visits			24	16	16		4	
ECIFP		8	16	24	24			
Review Constr. Schedule		4	5	8				
Response to Review Comments			24	16	8			
		106	310	644	414	136	50	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET						25-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River Plans and Specifications				ORG CODE	
OFFICE:		Fish and Wildlife				EN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	4	Hours	\$44	\$176	
	Architect/Engineer	12	196	Hours	\$37	\$7,252	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$7,428	
2) Tech Indirect (Est Rate:)		64.0%				\$4,754	
3) General Admin (Est Rate:)		27.0%				\$2,006	
TOTAL LABOR CHARGES						\$14,187	
TRAVEL:							
4) Travel & Transportation		Per Deim		2	# Days	\$75	\$150
	Govt Vehicle	600	# Miles	\$0.25		\$150	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$300	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS				
c. Transportation			LS				
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$14,487	
12) Contingency, Account 30.A.A.		10%				\$1,449	
13) TOTAL FOR OFFICE						\$15,936	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River Plans and Specifications						
OFFICE:		Fish and Wildlife						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
	internal coordination meetings		1	20				
	agency coordination meetings		1	20				
	develop measures to reduce fish impacts		1	20				
	site visits		1	16				
	Cultural Resources							
	-write monitoring contract SOW			40				
	-coordinate (SHPO, Native Americans,...)			80				
		0	4	196	0	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS								
<p>Monitoring costs of \$70K, curation costs of \$8K, and mitigation costs of \$75K included in BCE.</p>								
BPS.XLW								

BUDGET WORKSHEET

25-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River PS

ORG CODE

OFFICE: Technical Resources Branch

CR

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	0 Hours	\$52	\$0
Section Chief	13	24 Hours	\$44	\$1,056
Architect/Engineer	12	38 Hours	\$37	\$1,406
Architect/Engineer	11	81 Hours	\$34	\$2,754
Technician	7/ 9	412 Hours	\$26	\$10,712
Secretary	5/6	52 Hours	\$17	\$884
Stay-In-School	3/4	60 Hours	\$12	\$720
Subtotal In-House Direct Labor				\$17,532
2) Tech Indirect (Est Rate:)		64.0%		\$11,220
3) General Admin (Est Rate:)		27.0%		\$4,734
TOTAL LABOR CHARGES				\$33,486

TRAVEL:

4) Travel & Transportation				
Per Diem	0	# Days	\$75	\$0
Govt Vehicle	0	# Miles	\$0.25	\$0
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL

\$0

OTHER EXPENSES:

5) Graphics				\$0
6) Misc Expenses				
CADD	0	#Hours	\$35	\$0
Materials		LS		\$0
Reproduction		LS		\$5,000

SUBTOTAL OTHER EXPENSES

\$5,000

CONTRACTS & OTHER COE:

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor				
Principal	0	Hours	\$0	\$0
Supervisor	0	Hours	\$0	\$0
Senior Architect/Engineer	0	Hours	\$0	\$0
Architect/Engineer	0	Hours	\$0	\$0
Technician / Drafter/CADD	0	Hours	\$0	\$0
Secretary	0	Hours	\$0	\$0
other	0	Hours	\$0	\$0
labor subtotal				\$0
b. Materials		LS		\$0
c. Transportation		LS		\$0
d. Profit		10.0%		\$0
9) Other Corps Payments (eg. 2544's)				
10) Other Government Payments (eg. 1144's)				
SUBTOTAL CONTRACTS & OTHER COE				\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.			\$38,486
12) Contingency, Account 30.A.A.	10%		\$3,849
13) TOTAL FOR OFFICE			\$42,335

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River Plans and Specifications
OFFICE:	Technical Resources Branch

[illegible]

- 3 A/E delivery orders under \$150K each will be supported

BUDGET WORKSHEET

9-Nov-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River Plans and Specifications

ORG CODE

OFFICE: Real Estate

BU

DIRECT CHARGES:

1) a. Labor				Amount	Staff Average	\$ Amount
	Division Ch.	13	20	Hours	\$42	\$840
	Branch Ch.	12	80	Hours	\$36	\$2,840
	Attorney	13	80	Hours	\$39	\$3,080
			0	Hours	\$0	\$0
	Technician	11	18	Hours	\$33	\$585
	Secretary	5/6	20	Hours	\$17	\$330
	other		0	Hours	\$0	\$0
Subtotal In-House Direct Labor						\$7,675
2) Tech Indirect (Est Rate:)			68.0%			\$5,219
3) General Admin (Est Rate:)			18.0%			\$1,381
TOTAL LABOR CHARGES						\$14,275

TRAVEL:

4) Travel & Transportation						
	Per Diem	0	# Days	\$75		\$0
	Govt Vehicle	800	# Miles	\$0.25		\$200
	Flight		#Trips	\$250		\$0
	Auto Rental		#Times	\$35		\$0

SUBTOTAL TRAVEL \$200**OTHER EXPENSES:**

5) Graphics						
6) Misc Expenses						
	CADD	0	#Hours	\$35		\$0
	Materials	1	LS			\$0
	Reproduction		LS			\$25

SUBTOTAL OTHER EXPENSES \$25**CONTRACTS & OTHER COE:**

8)	A/E Contract Payments		Amount	Staff Average	\$ Amount
a.	Labor	Principal	0	Hours	\$0
		Supervisor	0	Hours	\$0
		Senior Geol/Engr-Scien	0	Hours	\$0
		Geol/Engr-Scien	0	Hours	\$0
		Technician / Drafter/CADD	0	Hours	\$0
		Secretary	0	Hours	\$0
		other	0	Hours	\$0
		labor subtotal			\$0
b.	Materials		LS		
c.	Transportation		LS		
d.	Profit		10.0%		\$0
9)	Other Corps Payments (eg. 2544's)				
10)	Other Government Payments (eg. 1144's)				
SUBTOTAL CONTRACTS & OTHER COE					\$0

SUMMARY

11)	Total Estimated Cost for Account 30.A.					\$14,500
12)	Contingency, Account 30.A.A.		10%			\$1,500
13)	TOTAL FOR OFFICE					\$16,000

[illegible]

~~BPS.XLW~~

BASELINE SCOPE OF WORK							
PROJECT: Blue River Temperature Control						DATE PREPARED: 8/29/94	
SUBPRODUCT TITLE: Engineering During Construction						SUBPRODUCT #/WBS ID: WTCBW1	
TECHNICAL MANAGER: Karl Swanson		OFFICE/OBS: NPP-PE-DS		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM	
SUBPRODUCT SUMMARY DESCRIPTION: (see attached)							
<p>- PMP Worksheet (summary, total cost by office)</p> <p>- Specific product outline (plates, text, drawings, specifications) N/A</p> <p>- Individual office Budget and Task Worksheets</p>							
UPWARD REPORTED MILESTONES		% OMP	INTERNAL MILESTONES			% COMP	COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____ _____
		FY02	FY03	FY04	FY05	FY06	TOTAL
CONSTRUCTION COST							
		CONTINGENCY					
		TOTAL CONSTR. COST					
		0.2	0.3	0.2	0.2	0.1	
BASELINE ALLOCATION *		109	164	109	109	55	545
		CONTINGENC					82
		TOTAL ESTIMATE					627
Submitted:				Approved:			
(Technical Manager)		(Date)		(Project\Study Manager)		(Date)	

A.10

PMP WORKSHEET								
PROJECT: Willamette River Temperature Control Feasibility Study								
LEAD: CENPP-PE-DS Swanson								
TASK: Blue River Engineering During Construction								
Organization	Office Symbol	Org Cod	COSTS					
			Labor	Travel	Other	Contracts	Contingency	Total
Cost Engr Branch	PE-C	CE	\$15,952	\$400	\$0	\$0	\$1,635	\$17,988
Design Branch	PE-D	DB	\$10,834	\$0	\$0	\$0	\$1,083	\$11,917
Civil/Land. Design	PE-DC	DC	\$21,881	\$125	\$1,680	\$0	\$4,737	\$28,423
Electrical Design	PE-DE	DD	\$32,623	\$2,350	\$2,280	\$0	\$7,451	\$44,703
Mechanical Design	PE-DM	DF	\$6,066	\$150	\$1,560	\$0	\$778	\$8,554
Struct/Arch Des.	PE-DS	DG	\$144,786	\$2,000	\$17,550	\$0	\$32,867	\$197,203
H & H Branch	PE-H	DK	\$8,450	\$0	\$0	\$0	\$845	\$9,295
Hydraul. Design	PE-HD	DL	\$37,933	\$2,375	\$0	\$0	\$2,015	\$42,323
Res. Regulation	PE-HR	DR	\$20,888	\$0	\$500	\$0	\$4,278	\$25,665
Hydrology	PE-HY	DN	\$33,830	\$150	\$200	\$0	\$6,836	\$41,016
Geotech Branch	PE-G	CJ	\$120,383	\$2,225	\$2,850	\$0	\$12,546	\$138,004
Economics	PE-PE	ED	\$0	\$0	\$0	\$0	\$0	\$0
Fish & Wildlife	PE-RR	EN	\$30,957	\$3,500	\$0	\$10,000	\$4,446	\$48,903
Environmental	PE-RP	EM	\$0	\$0	\$0	\$0	\$0	\$0
Tech. Branch	PE-T		\$1,497	\$0	\$500	\$0	\$200	\$2,197
Project	OP-V	JB	\$0	\$0	\$0	\$0	\$0	\$0
Real Estate	RE-AP	BU	\$8,575	\$200	\$25	\$0	\$1,200	\$10,000
Contract Admin	CT-C	NG	\$0	\$0	\$0	\$0	\$0	\$0
Contract Procurement	CT-P	ND	\$0	\$0	\$0	\$0	\$0	\$0
Construction	CO-SC	FE	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS			\$494,654	\$13,475	\$27,145	\$10,000	\$80,916	\$626,191

BUDGET WORKSHEET						29-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Cost Engineering Branch				CE	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$53	\$0	
	Branch Chief	13	48	Hours	\$48	\$2,304	
	Cost Engineer	12	144	Hours	\$42	\$6,048	
	Cost Engineer	11	0	Hours	\$36	\$0	
	Technician	7/ 9	0	Hours	\$30	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$0	\$0	
Subtotal In-House Direct Labor						\$8,352	
2) Tech Indirect (Est Rate:)		64.0%				\$5,345	
3) General Admin (Est Rate:)		27.0%				\$2,255	
TOTAL LABOR CHARGES						\$15,952	
TRAVEL:							
4) Travel & Transportation		Per Deim		4	# Days	\$75	\$300
		Govt Vehicle	400	# Miles	\$0.25	\$100	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$400	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Project Manager	0	Hours	\$0	\$0		
	Senior Cost Engineer	0	Hours	\$0	\$0		
	Cost Engineer	0	Hours	\$0	\$0		
	Jr Cost Engineer	0	Hours	\$0	\$0		
	Technician	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	labor subtotal				\$0		
b. Materials			LS		\$0		
c. Transportation			LS		\$0		
d. Profit			10.0%		\$0		
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$16,352	
12) Contingency, Account 30.A.A.		10%				\$1,635	
13) TOTAL FOR OFFICE						\$17,988	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Cost Engineering Branch						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Review			8					
Coordination			8					
Contract Modifications Plans & Spec			16	24				
MCACES Costs				32				
Labor, Equipment & Material Costs				24				
Contract Mod/Claim Impact CO support				32				
Construction Site Inspection(s)			16	32				
		0	48	144	0	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	PM	Sr CE	CE	Jr CE	Tech	Sec
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Design Branch				DB	
DIRECT CHARGES:							
1) a. Labor				Amount	Staff Average	\$ Amount	
	Branch Chief	14	96	Hours	\$52	\$4,992	
	Section Chief	13	0	Hours	\$44	\$0	
	Architect/Engineer	12	0	Hours	\$37	\$0	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	40	Hours	\$17	\$680	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$5,672	
2) Tech Indirect (Est Rate:)				64.0%	\$3,630		
3) General Admin (Est Rate:)				27.0%	\$1,531		
TOTAL LABOR CHARGES						\$10,834	
TRAVEL:							
4) Travel & Transportation							
	Per Deim		# Days	\$75	\$0		
	Govt Vehicle		# Miles	\$0.25	\$0		
	Flight		#Trips	\$250	\$0		
	Auto Rental		#Times	\$35	\$0		
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses							
	CADD	0	#Hours	\$35	\$0		
	Materials		LS				
	Reproduction		LS				
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments				Amount	Staff Average	\$ Amount	
a. Labor	Principal	0	Hours	\$0	\$0		
	Supervisor	0	Hours	\$0	\$0		
	Senior Architect/Engineer	0	Hours	\$0	\$0		
	Architect/Engineer	0	Hours	\$0	\$0		
	Technician / Drafter/CADD	0	Hours	\$0	\$0		
	Secretary	0	Hours	\$0	\$0		
	other	0	Hours	\$0	\$0		
	labor subtotal				\$0		
b. Materials			LS		\$0		
c. Transportation			LS		\$0		
d. Profit		10.0%			\$0		
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$10,834	
12) Contingency, Account 30.A.A.				10%	\$1,083		
13) TOTAL FOR OFFICE						\$11,917	

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Civil and Environmental Design Section				DC	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
Branch Chief 14		0	Hours	\$52		\$0	
Section Chief 13		32	Hours	\$44		\$1,408	
Architect/Engineer 12		120	Hours	\$37		\$4,440	
Architect/Engineer 11		104	Hours	\$34		\$3,536	
Technician 7/ 9		64	Hours	\$26		\$1,664	
Secretary 5/6		24	Hours	\$17		\$408	
other		0	Hours	\$12		\$0	
Subtotal In-House Direct Labor						\$11,456	
2) Tech Indirect (Est Rate:)		64.0%				\$7,332	
3) General Admin (Est Rate:)		27.0%				\$3,093	
TOTAL LABOR CHARGES						\$21,881	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
		Govt Vehicle	500	# Miles	\$0.25	\$125	
		Flight		#Trips	\$250	\$0	
		Auto Rental		#Times	\$35	\$0	
SUBTOTAL TRAVEL						\$125	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		48	#Hours	\$35	\$1,680
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$1,680	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor Principal		0	Hours	\$0		\$0	
Supervisor		0	Hours	\$0		\$0	
Senior Architect/Engineer		0	Hours	\$0		\$0	
Architect/Engineer		0	Hours	\$0		\$0	
Technician / Drafter/CADD		0	Hours	\$0		\$0	
Secretary		0	Hours	\$0		\$0	
other		0	Hours	\$0		\$0	
labor subtotal						\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$23,686	
12) Contingency, Account 30.A.A.						20% \$4,737	
13) TOTAL FOR OFFICE						\$28,423	

TASK WORKSHEET							
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC					
OFFICE:		Civil and Environmental Design Section					
DIRECT LABOR ACTIVITY		HOURS					
	14	13	12	11	9	5/6	other
Site Visits		16	32	24		4	
Review of Submittals/ VE		8	40	40	16	4	
Modifications Preparation		8	40	40	40	16	
Pre-Constr. Meeting			8				
As-Builts					8		
	0	32	120	104	64	24	0
A/E LABOR ACTIVITY		HOURS					
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS							

BUDGET WORKSHEET										26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Blue River EDC						ORG CODE			
OFFICE:		Electrical Design						DD			
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief		14	0	Hours	\$52			\$0	
		Section Chief		13	26	Hours	\$44			\$1,144	
		Architect/Engineer		12	132	Hours	\$37			\$4,884	
		Architect/Engineer		11	256	Hours	\$34			\$8,704	
		Technician		7/ 9	72	Hours	\$26			\$1,872	
		Secretary		5/6	28	Hours	\$17			\$476	
		other			0	Hours	\$12			\$0	
Subtotal In-House Direct Labor										\$17,080	
2) Tech Indirect (Est Rate:)				64.0%						\$10,931	
3) General Admin (Est Rate:)				27.0%						\$4,612	
TOTAL LABOR CHARGES										\$32,623	
TRAVEL:											
4) Travel & Transportation											
		Per Deim		6	# Days	\$100			\$600		
		Govt Vehicle		2400	# Miles	\$0.25			\$600		
		Flight		2	#Trips	\$500			\$1,000		
		Auto Rental		1	#Times	\$150			\$150		
SUBTOTAL TRAVEL										\$2,350	
OTHER EXPENSES:											
5) Graphics										\$250	
6) Misc Expenses											
		CADD		48	#Hours	\$35			\$1,680		
		Materials			LS				\$100		
		Reproduction			LS				\$250		
SUBTOTAL OTHER EXPENSES										\$2,280	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal		0	Hours	\$0			\$0		
		Supervisor		0	Hours	\$0			\$0		
		Senior Architect/Engineer		0	Hours	\$0			\$0		
		Architect/Engineer		0	Hours	\$0			\$0		
		Technician / Drafter/CADD		0	Hours	\$0			\$0		
		Secretary		0	Hours	\$0			\$0		
		other		0	Hours	\$0			\$0		
		labor subtotal								\$0	
b. Materials				LS						\$0	
c. Transportation				LS						\$0	
d. Profit				10.0%						\$0	
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$37,253	
12) Contingency, Account 30.A.A.				20%						\$7,451	
13) TOTAL FOR OFFICE										\$44,703	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Electrical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
Project Review			6	8	4			
PreCon Meeting				8				
Submittal and VE Review			2	12	40		4	
Site Visits/Field Inspections			8	24	40		4	
Factory Inspections				20	20		4	
Assistance to Construction Office			2	12	32	24	4	
Modifications			8	16	16	8		
O&M Manual				24	80		4	
As-Built Drawings				8	24	40	8	
		0	26	132	256	72	28	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

26-Aug-94

ORG CODE

DF

1) a. Labor	Amount	Staff Average	\$ Amount
Branch Chief 14	0 Hours	\$52	\$0
Section Chief 13	4 Hours	\$44	\$176
Architect/Engineer 12	0 Hours	\$37	\$0
Architect/Engineer 11	72 Hours	\$34	\$2,448
Technician 7/ 9	16 Hours	\$26	\$416
Secretary 5/6	8 Hours	\$17	\$136
other	0 Hours	\$12	\$0
Subtotal In-House Direct Labor			\$3,176
2) Tech Indirect (Est Rate:)	64.0%		\$2,033
3) General Admin (Est Rate:)	27.0%		\$858
TOTAL LABOR CHARGES			\$6,066

4) Travel & Transportation				
Per Diem		# Days	\$75	\$0
Govt Vehicle	600	# Miles	\$0.25	\$150
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

\$150

5) Graphics				
6) Misc Expenses				
	CADD	16	#Hours	\$35
	Materials		LS	\$500
	Reproduction		LS	\$500

\$1,560

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor	Principal	0 Hours	\$0	\$0
	Supervisor	0 Hours	\$0	\$0
	Senior Architect/Engineer	0 Hours	\$0	\$0
	Architect/Engineer	0 Hours	\$0	\$0
	Technician / Drafter/CADD	0 Hours	\$0	\$0
	Secretary	0 Hours	\$0	\$0
	other	0 Hours	\$0	\$0
	labor subtotal			\$0
b.	Materials	LS		\$0
c.	Transportation	LS		\$0
d.	Profit	10.0%		\$0
9) Other Corps Payments (eg. 2544's)				
10) Other Government Payments (eg. 1144's)				

53

11) Total Estimated Cost for Account 30.A.		\$7,776
12) Contingency, Account 30.A.A.	10%	\$778
13) TOTAL FOR OFFICE		\$8,554

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Mechanical Design						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	other
review submittals and VE					24		4	
as-builts					8	16		
O&M manual supplement					8		2	
site visit					16			
modifications			4		16		2	
		0	4	0	72	16	8	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET										26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Blue River EDC						ORG CODE			
OFFICE:		Structural and Architectural Design						DG			
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief	14	0	Hours	\$52					\$0
		Section Chief	13	320	Hours	\$44					\$14,080
		Architect/Engineer	12	672	Hours	\$37					\$24,864
		Architect/Engineer	11	692	Hours	\$34					\$23,528
		Technician	7/ 9	450	Hours	\$26					\$11,700
		Secretary	5/6	96	Hours	\$17					\$1,632
		other		0	Hours	\$12					\$0
Subtotal In-House Direct Labor										\$75,804	
2) Tech Indirect (Est Rate:)				64.0%						\$48,515	
3) General Admin (Est Rate:)				27.0%						\$20,467	
TOTAL LABOR CHARGES										\$144,786	
TRAVEL:											
4) Travel & Transportation											
		Per Deim	16	# Days	\$75						\$1,200
		Govt Vehicle	3200	# Miles	\$0.25						\$800
		Flight		#Trips	\$250						\$0
		Auto Rental		#Times	\$35						\$0
SUBTOTAL TRAVEL										\$2,000	
OTHER EXPENSES:											
5) Graphics										\$0	
6) Misc Expenses											
		CADD	330	#Hours	\$35						\$11,550
		Materials		LS							\$1,000
		Reproduction		LS							\$5,000
SUBTOTAL OTHER EXPENSES										\$17,550	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal	0	Hours	\$0						\$0
		Supervisor	0	Hours	\$0						\$0
		Senior Architect/Engineer	0	Hours	\$0						\$0
		Architect/Engineer	0	Hours	\$0						\$0
		Technician / Drafter/CADD	0	Hours	\$0						\$0
		Secretary	0	Hours	\$0						\$0
		other	0	Hours	\$0						\$0
		labor subtotal									\$0
b. Materials				LS							\$0
c. Transportation				LS							\$0
d. Profit				10.0%							\$0
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.										\$164,336	
12) Contingency, Account 30.A.A.										20%	
										\$32,867	
13) TOTAL FOR OFFICE										\$197,203	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Structural and Architectural Design						
	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	coordination, TM (4 years)		48	240	144		24	
	answer RFI's (requests for information)			8	40	0	24	
	review contractor proposals / VE		4	32	40	40		
	review contractor design features			8	40	40		
	change order review board (6 d/yr)		192					
	agency coord. mtgs. (6/yr)			120				
	review shop drawings			8	40	40	24	
	agency corespondance/presentations		8	80				
	site visits, shop visits		64	128	64			
	pre-construction conference			8	8			
	contract modifications		4	16	240	240	24	
	punchlist/completion inspections			16	16			
	as-built 21 drawings				60	90		
	O&M manual coordination			8				
		0	320	672	692	450	96	0
	A/E LABOR ACTIVITY	HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
	A/E LABOR TOTALS	0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET

26-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River EDC

ORG CODE

OFFICE: H & H Branch

DK

DIRECT CHARGES:

1) a. Labor		Amount		Staff Average	\$ Amount
Branch Chief	14	72	Hours	\$52	\$3,744
Section Chief	13	0	Hours	\$44	\$0
Architect/Engineer	12	0	Hours	\$37	\$0
Architect/Engineer	11	0	Hours	\$34	\$0
Technician	7/ 9	0	Hours	\$26	\$0
Secretary	5/6	40	Hours	\$17	\$680
other		0	Hours	\$12	\$0
Subtotal In-House Direct Labor					\$4,424
2) Tech Indirect (Est Rate:)		64.0%			\$2,831
3) General Admin (Est Rate:)		27.0%			\$1,194
TOTAL LABOR CHARGES					\$8,450

TRAVEL:

4) Travel & Transportation				
Per Diem	<input type="text"/>	# Days	\$75	\$0
Govt Vehicle	<input type="text"/>	# Miles	\$0.25	\$0
Flight	<input type="text"/>	#Trips	\$250	\$0
Auto Rental	<input type="text"/>	#Times	\$35	\$0
SUBTOTAL TRAVEL				\$0

OTHER EXPENSES:

5) Graphics					
6) Misc Expenses					
	CADD	0	#Hours	\$35	\$0
	Materials		LS		
	Reproduction		LS		
SUBTOTAL OTHER EXPENSES					\$0

CONTRACTS & OTHER COE:

8) A/E Contract Payments	Amount	Staff Average	\$ Amount
a. Labor			
Principal	0 Hours	\$0	\$0
Supervisor	0 Hours	\$0	\$0
Senior Architect/Engineer	0 Hours	\$0	\$0
Architect/Engineer	0 Hours	\$0	\$0
Technician / Drafter/CADD	0 Hours	\$0	\$0
Secretary	0 Hours	\$0	\$0
other	0 Hours	\$0	\$0
labor subtotal			\$0
b. Materials	LS		\$0
c. Transportation	LS		\$0
d. Profit	10.0%		\$0
9) Other Corps Payments (eg. 2544's)			
10) Other Government Payments (eg. 1144's)			
SUBTOTAL CONTRACTS & OTHER COE			\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.			\$8,450
12) Contingency, Account 30.A.A.	10%		\$845
13) TOTAL FOR OFFICE			\$9,295

BUDGET WORKSHEET

26-Aug-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY**TASK:** Blue River EDC

ORG CODE

OFFICE: Hydraulic Design

DL

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Branch Chief	14	0 Hours	\$52	\$0
Section Chief	13	68 Hours	\$44	\$2,992
Architect/Engineer	12	228 Hours	\$37	\$8,436
Architect/Engineer	11	248 Hours	\$34	\$8,432
Technician	7/ 9	0 Hours	\$26	\$0
Secretary	5/6	0 Hours	\$17	\$0
other		0 Hours	\$12	\$0
Subtotal In-House Direct Labor				\$19,860
2) Tech Indirect (Est Rate:)		64.0%		\$12,710
3) General Admin (Est Rate:)		27.0%		\$5,362
TOTAL LABOR CHARGES				\$37,933

TRAVEL:

4) Travel & Transportation				
Per Diem	25	# Days	\$75	\$1,875
Govt Vehicle	2000	# Miles	\$0.25	\$500
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL

\$2,375

OTHER EXPENSES:

5) Graphics				\$0
6) Misc Expenses				
CADD	0	#Hours	\$35	\$0
Materials		LS		\$0
Reproduction		LS		\$0

SUBTOTAL OTHER EXPENSES

\$0

CONTRACTS & OTHER COE:

8) A/E Contract Payments		Amount	Staff Average	\$ Amount
a. Labor				
Principal	0	Hours	\$0	\$0
Supervisor	0	Hours	\$0	\$0
Senior Architect/Engineer	0	Hours	\$0	\$0
Architect/Engineer	0	Hours	\$0	\$0
Technician / Drafter/CADD	0	Hours	\$0	\$0
Secretary	0	Hours	\$0	\$0
other	0	Hours	\$0	\$0
labor subtotal				\$0
b. Materials		LS		\$0
c. Transportation		LS		\$0
d. Profit		10.0%		\$0
9) Other Corps Payments (eg. 2544's)		WES		\$0
10) Other Government Payments (eg. 1144's)				

SUBTOTAL CONTRACTS & OTHER COE

\$0

SUMMARY

11) Total Estimated Cost for Account 30.A.			\$40,308
12) Contingency, Account 30.A.A.	5%		\$2,015
13) TOTAL FOR OFFICE			\$42,323

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Hydraulic Design						
DIRECT LABOR ACTIVITY	HOURS							
	14	13	12	11	9	5/6	other	
Preconstruction meeting		8	8	8				
Information requests (RFI's)		20	80	80				
Site visits / Field inspections		40	120	120				
SD and VE reviews			20	40				
	0	68	228	248	0	0	0	
A/E LABOR ACTIVITY	HOURS							
	Prin.	Supr.	Sr AE	AE	T/D	Sec.	other	
A/E LABOR TOTALS	0	0	0	0	0	0	0	
REMARKS								

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Reservoir Regulation & Water Quality				DR	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	24	Hours	\$44	\$1,056	
	Architect/Engineer	12	120	Hours	\$37	\$4,440	
	Architect/Engineer	11	160	Hours	\$34	\$5,440	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	Stay-In-School	3/4	0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$10,936	
2) Tech Indirect (Est Rate:)		64.0%				\$6,999	
3) General Admin (Est Rate:)		27.0%				\$2,953	
TOTAL LABOR CHARGES						\$20,888	
TRAVEL:							
4) Travel & Transportation		Per Deim		0	# Days	\$75	\$0
	Govt Vehicle	0	# Miles	\$0.25		\$0	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$0	
OTHER EXPENSES:							
5) Graphics						\$0	
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
	Materials			LS		\$0	
	Reproduction			LS		\$500	
SUBTOTAL OTHER EXPENSES						\$500	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials			LS				
c. Transportation			LS				
d. Profit			10.0%			\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$21,388	
12) Contingency, Account 30.A.A.		20%				\$4,278	
13) TOTAL FOR OFFICE						\$25,665	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Reservoir Regulation & Water Quality						
DIRECT LABOR ACTIVITY		HOURS						
		14	13	12	11	9	5/6	3/4
Interum Water Control Manual			24		160			
Agency Coord. Mtgs. (6/yr) res. reg. and turbidity				120				
		0	24	120	160	0	0	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BFDC.XLW

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Hydrologic, Coastal & River				DN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	88	Hours	\$44	\$3,872	
	Architect/Engineer	12	80	Hours	\$37	\$2,960	
	Architect/Engineer	11	320	Hours	\$34	\$10,880	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$17,712	
2) Tech Indirect (Est Rate:)		64.0%				\$11,336	
3) General Admin (Est Rate:)		27.0%				\$4,782	
TOTAL LABOR CHARGES						\$33,830	
TRAVEL:							
4) Travel & Transportation		Per Deim		# Days	\$75	\$0	
	Govt Vehicle	600	# Miles	\$0.25		\$150	
	Flight		#Trips	\$250		\$0	
	Auto Rental		#Times	\$35		\$0	
SUBTOTAL TRAVEL						\$150	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			\$200
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$200	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$34,180	
12) Contingency, Account 30.A.A.		20%				\$6,836	
13) TOTAL FOR OFFICE						\$41,016	

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC				ORG CODE	
OFFICE:		Geotechnical Engineering				CJ	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	100	Hours	\$52	\$5,200	
	STL	13	365	Hours	\$44	\$16,060	
	Geol/Engr-Scien	12	784	Hours	\$37	\$29,008	
	Geol/Engr-Scien	11	96	Hours	\$34	\$3,264	
	Technician	7/9	360	Hours	\$26	\$9,360	
	Secretary	5/6	8	Hours	\$17	\$136	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$63,028	
2) Tech Indirect (Est Rate:)		64.0%				\$40,338	
3) General Admin (Est Rate:)		27.0%				\$17,018	
TOTAL LABOR CHARGES						\$120,383	
TRAVEL:							
4) Travel & Transportation		Per Diem		8	# Days	\$75	\$600
		Govt Vehicle		6500	# Miles	\$0.25	\$1,625
		Flight			#Trips	\$250	\$0
		Auto Rental			#Times	\$35	\$0
SUBTOTAL TRAVEL						\$2,225	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		80	#Hours	\$35	\$2,800
		Materials		1	LS		\$50
		Reproduction			LS		
SUBTOTAL OTHER EXPENSES						\$2,850	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours	\$0		\$0	
	Supervisor	0	Hours	\$0		\$0	
	Senior Architect/Engineer	0	Hours	\$0		\$0	
	Architect/Engineer	0	Hours	\$0		\$0	
	Technician / Drafter/CADD	0	Hours	\$0		\$0	
	Secretary	0	Hours	\$0		\$0	
	other	0	Hours	\$0		\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)							
SUBTOTAL CONTRACTS & OTHER COE						\$0	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$125,458	
12) Contingency, Account 30.A.A.		10%				\$12,546	
13) TOTAL FOR OFFICE						\$138,004	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River EDC
OFFICE:	Geotechnical Engineering

	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	Instrumentation Monitoring		8	160		160		
	Instrumentation Reports	36	8	120		120		
	EDC Diversion	48	240	360			4	
	Review Submittals		20	32	16			
	Prepare Modifications		12	24	16			
	As-built Dwgs		25	32	40	80		
	Review VE Proposals		4	8				
	Pre-construction Conference		16	16	8			
	Site Visits	16	32	32	16		4	
		100	365	784	96	360	8	0

[illegible]

REMARKS

BUDGET WORKSHEET						26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY					
TASK:		Blue River EDC (FY02 to FY 05)				ORG CODE	
OFFICE:		Fish and Wildlife				EN	
DIRECT CHARGES:							
1) a. Labor		Amount		Staff Average		\$ Amount	
	Branch Chief	14	0	Hours	\$52	\$0	
	Section Chief	13	32	Hours	\$44	\$1,408	
	Architect/Engineer	12	400	Hours	\$37	\$14,800	
	Architect/Engineer	11	0	Hours	\$34	\$0	
	Technician	7/ 9	0	Hours	\$26	\$0	
	Secretary	5/6	0	Hours	\$17	\$0	
	other		0	Hours	\$12	\$0	
Subtotal In-House Direct Labor						\$16,208	
2) Tech Indirect (Est Rate:)		64.0%				\$10,373	
3) General Admin (Est Rate:)		27.0%				\$4,376	
TOTAL LABOR CHARGES						\$30,957	
TRAVEL:							
4) Travel & Transportation		Per Deim		20	# Days	\$75	\$1,500
	Govt Vehicle	8000	# Miles		\$0.25	\$2,000	
	Flight		#Trips		\$250	\$0	
	Auto Rental		#Times		\$35	\$0	
SUBTOTAL TRAVEL						\$3,500	
OTHER EXPENSES:							
5) Graphics							
6) Misc Expenses		CADD		0	#Hours	\$35	\$0
		Materials		LS			
		Reproduction		LS			
SUBTOTAL OTHER EXPENSES						\$0	
CONTRACTS & OTHER COE:							
8) A/E Contract Payments		Amount		Staff Average		\$ Amount	
a. Labor	Principal	0	Hours		\$0	\$0	
	Supervisor	0	Hours		\$0	\$0	
	Senior Architect/Engineer	0	Hours		\$0	\$0	
	Architect/Engineer	0	Hours		\$0	\$0	
	Technician / Drafter/CADD	0	Hours		\$0	\$0	
	Secretary	0	Hours		\$0	\$0	
	other	0	Hours		\$0	\$0	
	labor subtotal					\$0	
b. Materials		LS				\$0	
c. Transportation		LS				\$0	
d. Profit		10.0%				\$0	
9) Other Corps Payments (eg. 2544's)							
10) Other Government Payments (eg. 1144's)		USFS, ODFW				\$10,000	
SUBTOTAL CONTRACTS & OTHER COE						\$10,000	
SUMMARY							
11) Total Estimated Cost for Account 30.A.						\$44,457	
12) Contingency, Account 30.A.A.		10%				\$4,446	
13) TOTAL FOR OFFICE						\$48,903	

TASK WORKSHEET

PROJECT:	WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY
TASK:	Blue River EDC
OFFICE:	Fish and Wildlife

	DIRECT LABOR ACTIVITY	HOURS						
		14	13	12	11	9	5/6	other
	agency coordination meetings		32	320				
	site visits			80				
		0	32	400	0	0	0	0

		HOURS						
A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other

REMARKS

\$10,000 for USFS and ODFW monitoring assistance

BUDGET WORKSHEET										26-Aug-94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY									
TASK:		Blue River EDC						ORG CODE			
OFFICE:		Technical Resources Branch						CR			
DIRECT CHARGES:											
1) a. Labor				Amount		Staff Average				\$ Amount	
		Branch Chief	14	0	Hours	\$52					\$0
		Section Chief	13	0	Hours	\$44					\$0
		Architect/Engineer	12	0	Hours	\$37					\$0
		Architect/Engineer	11	0	Hours	\$34					\$0
		Technician	7/ 9	16	Hours	\$26					\$416
		Secretary	5/6	16	Hours	\$17					\$272
		Stay-In-School	3/4	8	Hours	\$12					\$96
Subtotal In-House Direct Labor											\$784
2) Tech Indirect (Est Rate:)		64.0%									\$502
3) General Admin (Est Rate:)		27.0%									\$212
TOTAL LABOR CHARGES										\$1,497	
TRAVEL:											
4) Travel & Transportation				Per Deim		0	# Days	\$75			\$0
				Govt Vehicle		0	# Miles	\$0.25			\$0
				Flight			#Trips	\$250			\$0
				Auto Rental			#Times	\$35			\$0
SUBTOTAL TRAVEL										\$0	
OTHER EXPENSES:											
5) Graphics											\$0
6) Misc Expenses				CADD		0	#Hours	\$35			\$0
				Materials			LS				\$0
				Reproduction			LS				\$500
SUBTOTAL OTHER EXPENSES										\$500	
CONTRACTS & OTHER COE:											
8) A/E Contract Payments				Amount		Staff Average				\$ Amount	
a. Labor		Principal		0	Hours	\$0					\$0
		Supervisor		0	Hours	\$0					\$0
		Senior Architect/Engineer		0	Hours	\$0					\$0
		Architect/Engineer		0	Hours	\$0					\$0
		Technician / Drafter/CADD		0	Hours	\$0					\$0
		Secretary		0	Hours	\$0					\$0
		other		0	Hours	\$0					\$0
		labor subtotal									\$0
b. Materials				LS							
c. Transportation				LS							
d. Profit				10.0%							
9) Other Corps Payments (eg. 2544's)											
10) Other Government Payments (eg. 1144's)											
SUBTOTAL CONTRACTS & OTHER COE										\$0	
SUMMARY											
11) Total Estimated Cost for Account 30.A.											\$1,997
12) Contingency, Account 30.A.A.		10%									\$200
13) TOTAL FOR OFFICE										\$2,197	

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Technical Resources Branch						
		HOURS						
DIRECT LABOR ACTIVITY		14	13	12	11	9	5/6	3/4
	CR							
	CP							
	budget management					16		
	CQ							
	as-builts						16	8
		0	0	0	0	16	16	8
		HOURS						
A/E LABOR ACTIVITY		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BUDGET WORKSHEET

9-Nov-94

PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY

TASK: Blue River EDC

ORG CODE

OFFICE: Real Estate

BU

DIRECT CHARGES:

1) a. Labor		Amount	Staff Average	\$ Amount
Division Ch.	13	10 Hours	\$42	\$420
Branch Ch.	12	50 Hours	\$36	\$1,775
Attorney	13	50 Hours	\$39	\$1,925
		0 Hours	\$0	\$0
Technician	11	10 Hours	\$33	\$325
Secretary	5/6	10 Hours	\$17	\$165
other		0 Hours	\$0	\$0

Subtotal In-House Direct Labor

2) Tech Indirect (Est Rate:) 68.0% \$3,135

3) General Admin (Est Rate:) 18.0% \$830

TOTAL LABOR CHARGES \$8,575**TRAVEL:**

4) Travel & Transportation

Per Diem	0	# Days	\$75	\$0
Govt Vehicle	800	# Miles	\$0.25	\$200
Flight		#Trips	\$250	\$0
Auto Rental		#Times	\$35	\$0

SUBTOTAL TRAVEL \$200**OTHER EXPENSES:**

5) Graphics

6) Misc Expenses

CADD	0	#Hours	\$35	\$0
Materials	1	LS		\$0
Reproduction		LS		\$25

SUBTOTAL OTHER EXPENSES \$25**CONTRACTS & OTHER COE:**

8) A/E Contract Payments		Amount		Staff Average	\$ Amount
a. Labor	Principal	0	Hours	\$0	\$0
	Supervisor	0	Hours	\$0	\$0
	Senior Architect/Engineer	0	Hours	\$0	\$0
	Architect/Engineer	0	Hours	\$0	\$0
	Technician / Drafter/CADD	0	Hours	\$0	\$0
	Secretary	0	Hours	\$0	\$0
	other	0	Hours	\$0	\$0
	labor subtotal				\$0
b. Materials		LS			\$0
c. Transportation		LS			\$0
d. Profit		10.0%			\$0

9) Other Corps Payments (eg. 2544's)

10) Other Government Payments (eg. 1144's)

SUBTOTAL CONTRACTS & OTHER COE \$0**SUMMARY**

11) Total Estimated Cost for Account 30.A. \$8,800

12) Contingency, Account 30.A.A. 13% \$1,200

13) TOTAL FOR OFFICE \$10,000

TASK WORKSHEET								
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY						
TASK:		Blue River EDC						
OFFICE:		Real Estate						
DIRECT LABOR ACTIVITY		HOURS						
		13	12	13		11	5/6	other
Monitor and modify MOU		10	50	50		10	10	
		10	50	50	0	10	10	0
A/E LABOR ACTIVITY		HOURS						
		Prin.	Supr.	Sr AE	AE	T/D	Sec.	other
A/E LABOR TOTALS		0	0	0	0	0	0	0
REMARKS								

BASELINE SCOPE OF WORK										
PROJECT: Willamette Temperature Control- BLUE RIVER						DATE PREPARED: 8/22/94				
SUBPRODUCT TITLE: Project Management						SUBPRODUCT #/WBS ID:				
TECHNICAL MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM				
<p>Subproduct Summary Description (attach additional detail sheets as necessary):</p> <p>The project manager (PM) is responsible for overall management of the project and serves as leader of the project team in accordance with ER 5-7-1. The PM allocates funds, assists in resolution of issues to limit impacts on the project's cost and schedule, approves changes as outlined in the PMP, serves as the primary point of contact with outside agencies and the media, and other duties as described in the project management plan.</p> <p>The estimated cost includes preparation of monthly reports for the PRB, input and progressing of official District schedules in Open Plan, preparation of necessary programming documents, and input of allocations into BMS.</p> <p>Due to the need to maintain flood control during construction, and the resulting gaps in the construction schedule, the level of project management effort after contract award is expected to peak during the summer.</p>										
UPWARD REPORTED MILESTONES			% DATE COMPL		INTERNAL MILESTONES			% DATE COMPL		COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ PM _____ PM-S _____ PM-P
N/A					N/A					
			FY 99		FY00		FY01			
			FY02		OUTYEAR		TOTAL			
CONSTRUCTION COST										
TOTAL CONSTRUCTION COST					CONTINGENCY					
							N/A			
BASELINE ALLOCATION *			21		42		42			
			66		243		414			
TOTAL ESTIMATE					CONTINGENCY		32			
							446			
Submitted: <u>Nancy Clarke</u> <u>9/8/94</u> Approved: _____ (Technical Manager) (Date) (Project\Study Manager) (Date)										

A.11

BASELINE SCOPE OF WORK

PROJECT: Willamette Temp Control -- BLUE RIVER							DATE PREPARED: 8/22/94		
SUBPRODUCT TITLE: Project Management							SUBPRODUCT #/WBS ID:		
TECHNICAL MANAGER: Doug Clarke		OFFICE/OBS: NPP-PM		PROJECT/STUDY MANAGER: Doug Clarke			OFFICE/OBS: NPP-PM		
ORGANIZATION	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	TOTAL
PM	16	35	35	50	55	55	51	27	324
PM-S	4.5	5	5	14.5	14.5	14.5	15.5	5.5	79
PM-P	0.5	2	2	1.5	1.5	1.5	1.5	0.5	11
BASELINE SUB- PRODUCT ALLOCATION	21	42	42	66	71	71	68	33	414

ATTACH DETAILED SUBPRODUCT DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

PM

Open Plan- 1 day/month

BMS/allocation/SACCR actions- 1 days/month

PRB reports/meeting- 1 day/month

Site visit- 2 days/year

Coord, meetings, issue resolution during FDM/P & S- 1/2 day/week (overlap with Cougar)

PM involvement during construction season- 1 days/week

Programming actions- 10 days /year

FY 00 - 01: Subtract open plan, PRB, programming, site visit due to Cougar overlap

FY 99 25 days

FY 00 - 01 44 days/year

FY 02 - 05 64 days/year

FY 06 32 days

Total for Blue- 401 days = 3208 hours

PM-S

PRB reports, BMS allocations, SACCR processing- 1 day/month

Site visit- 1 day/year

Open Plan- 1/2 day/month

Programming actions/forcon- 3 days/year

Work orders/document review- 1 days/month May - Oct

1/2 day/month Nov - Apr

FY 99 - 01 9 days/year (adjusted for overlap with Cougar)

FY 02 - 05 31 days/year

FY 06 15 days

Total hours = 1328 hours

PM-P

Miscellaneous support- 2 days/year

Total hours = 104 hours

PROJECT: Willamette Temperature Control, BLUE RIVER

TECH ELEMENT: NPP-PM

ACCOUNT CODE: 30.P & 31.P

Budget Category	Amount	Variable	Typ. Staff Element Ave. Effective Rate	Cost Estimate
-----------------	--------	----------	----------------------------------------------	------------------

Direct Charges

1) Labor

Reg	3208 Hours	\$38.00	\$121,904
OT	Hours		
Borrowed	Hours		
Borrowed OT	Hours		
Subtotal Labor	3208 Hours		\$121,904

2) Travel & Transportation

Per Diem	12 # Days	\$75.00	\$900
Govt Vehicle	2400 # Miles	\$0.25	\$600
Subtotal Travel			\$1,500

3) Supplys & Materials

L.S.

4) Misc Expense

4207 L.S.

\$4,207

5) Facility Accounts

Reproduction	5000 L.S.		
ADP	CPU Unit		
Plant & Equipment	Days		
Survey	Days		
Core Drill	Days		
Shops & Yards	Days		
Subtotal Facility Accounts	5000		\$5,000

6) Contract Payments (A/E, etc.)

7) Other Corps Payments (eg. MIPR's)

8) Other Government Payments (eg. 1144's)

Total Direct Charges for Org

\$132,611

Distributive Charges

9) Technical Indirect (Est Rate)	130%	\$158,475
10) General Admin (Est Rate)	27%	\$32,914
Total Distributed Charges		\$191,389
Total Estimated Cost for CENPP-PM		\$324,000
Contingency		\$26,000
Total for Account		\$350,000

30.P Total = 60%

31.P Total = 40%

PROJECT: Willamette Temperature Control, BLUE RIVER

TECH ELEMENT: NPP-PM-S

ACCOUNT CODE: 30.P & 31.P

Budget Category	Amount	Variable	Typ. Staff Element Ave. Effective Rate	Cost Estimate
-----------------	--------	----------	----------------------------------------------	------------------

Direct Charges

1) Labor

Reg	1328 Hours	\$23.03	\$30,584
OT	Hours		
Borrowed	Hours		
Borrowed OT	Hours		
Subtotal Labor	1328 Hours		\$30,584

2) Travel & Transportation

Per Diem	5 # Days	\$75.00	\$375
Govt Vehicle	# Miles	\$0.25	\$0
Subtotal Travel			\$375

3) Supplys & Materials

L.S.

4) Misc Expense

25 L.S.

\$25

5) Facility Accounts

Reproduction	L.S.		
ADP	CPU Unit		
Plant & Equipment	Days		
Survey	Days		
Core Drill	Days		
Shops & Yards	Days		
Subtotal Facility Accounts	0		\$0

6) Contract Payments (A/E, etc.)

7) Other Corps Payments (eg. MIPR's)

8) Other Government Payments (eg. 1144's)

Total Direct Charges for Org

\$30,984

Distributive Charges

9) Technical Indirect (Est Rate)	130%	\$39,759
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10) General Admin (Est Rate)	27%	\$8,258
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Total Distributed Charges

\$48,017

Total Estimated Cost for CENPP-PM

\$79,000

Contingency

\$6,000

Total for Account

\$85,000

30.P Total = 60%

31.P Total = 40%

PROJECT: Willamette Temperature Control, BLUE RIVER
TECH ELEMENT: NPP-PM-P
ACCOUNT CODE: 30.P & 31.P

Budget Category	Amount	Variable	Typ. Staff Element Ave. Effective Rate	Cost Estimate
-----------------	--------	----------	----------------------------------------------	------------------

Direct Charges

1) Labor

Reg	104 Hours		\$33.39	\$3,473
OT	Hours			
Borrowed	Hours			
Borrowed OT	Hours			
Subtotal Labor	104 Hours			\$3,473

2) Travel & Transportation

Per Diem	2 # Days		\$75.00	\$150
Govt Vehicle	# Miles		\$0.25	\$0
Subtotal Travel				\$150

3) Supplys & Materials

L.S.

4) Misc Expense	1926 L.S.			\$1,926
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5) Facility Accounts

Reproduction	L.S.			
ADP	CPU Unit			
Plant & Equipment	Days			
Survey	Days			
Core Drill	Days			
Shops & Yards	Days			
Subtotal Facility Accounts	0			\$0

6) Contract Payments (A/E, etc.)

7) Other Corps Payments (eg. MIPR's)

8) Other Government Payments (eg. 1144's)

Total Direct Charges for Org				\$5,549
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Distributive Charges

9) Technical Indirect (Est Rate)	130%	\$4,514
10) General Admin (Est Rate)	27%	\$938
Total Distributed Charges		\$5,452
Total Estimated Cost for CENPP-PM		\$11,000
Contingency		\$0
Total for Account		\$11,000

30.P Total = 60%

BASELINE SCOPE OF WORK							
PROJECT: Willamette Temperature Control						DATE REVISED: November 30, 1994	
TASK TITLE: Blue River Dam/Construction Management (31 Account)						TASK NUMBER/WBS ID:	
TECHNICAL MANAGER: Kathy Vest		OFFICE: CENPP-CO		PROJECT/STUDY MANAGER: Doug Clarke		OFFICE: CENPP-DDE-PM	
TASK SUMMARY DESCRIPTION: (See Attached Sheets for Additional Detail)							
Provide Construction Management cost estimates for all costs incurred by Construction Division and Contracting Division for contract administration, supervision, construction inspection, quality assurance, and related tasks associated with the construction contracts.							
It is proposed that Construction Division would not establish an Area Office for this work. A Project Engineer would be assigned to oversee this project and support facilities will be provided by Operations Division for the duration of the contract.							
UPWARD REPORTED MILESTONES DATE % COMPL			INTERNAL MILESTONES DATE % COMPL			COMMITMENT TO SCOPE, BUDGET, AND SCHEDULE: _____ _____ _____ _____ _____ _____	
		FY96	FY97	FY98	FY99	FY00	TOTAL
CONSTRUCTION COST							7594.0
TOTAL CONSTRUCTION COST		CONTINGENCY					1139.1
							8733.1
TOTAL TASK ALLOCATION *		####	294.0	293.5	293.5	61.0	1224.3
		CONTINGENCY					122.4
TOTAL ESTIMATE							1346.7
Submitted: Kathy Vest 11/30/94				Approved: _____			
(Technician) Kathy Vest		(Date)		(Project\Study Man) Doug Clarke		(Date)	

* Allocation does not include Contingency, and is the approved budget amount.

A.12

<div> <div>Page 2</div> <div>BASELINE SCOPE OF WORK</div> </div>									
PROJECT: Willamette Temperature Control							DATE REVISED: 30 Nov 1994		
TASK TITLE: Blue River Dam/Construction Management (31 Account)							TASK NUMBER/WBS ID:		
TECHNICAL MANAGER: Kathy Vest		OFFICE: CENPP-CO		PROJECT/STUDY MANAGER: Doug Clarke			OFFICE: CENPP-DDE-PM		
ORGANIZATION	FY 96	FY97	FY98	FY 99	FY 00	FY 01	FY 02	FY 03	TOTAL
Resident Office 31A1	227.6	238	237.5	237.5	49.5				989.6
District Office 31C1	30.1	31.4	31.4	31.4	6.5				130.8
Contracting Div CT-P 31C2	3.9	3.9	3.9	3.9	0.2				15.8
Engr Div (Shop Dwg Review) 31C2	1.5	1.5	1.5	1.5					6.0
Proj Mngmt PM-P 31E0									
Operations Div OP-P 31C2	19.2	19.2	19.2	19.2	4.8				81.6
TOTAL TASK ALLOCATION	282.3	294	293.5	293.5	61.0				

ATTACH DETAILED TASK DESCRIPTION ON ADDITIONAL SHEETS AS REQUIRED

BUDGET WORKSHEET				11/30/94	
PROJECT:		WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK:		Blue River Construction Management		ORG CODE	
OFFICE:		Construction Division (District Ofc)		FB/FC	
LABOR CHARGES (Preparation Phase): (2 Weeks)					
1) a. Labor					
		Amount		Staff Ave	\$ Amount
	Chief (14)	0.25	Hours	\$63	\$16
	Branch Chief (13)	0.25	Hours	\$44	\$11
	CA Engineer (12)	1	Hours	\$42	\$42
	Budget Tech. (7/8)	3	Hours	\$19	\$57
	Support Svcs Spec (7)	1	Hours	\$21	\$21
	Secretary (5)	2	Hours	\$15	\$30
	Other		Hours	\$0	0
Subtotal In-House Direct Labor					\$177
2) Tech Indirect (Est. Rate):		68.00%			\$120
3) G&A Rate (Est. Rate):		20.00%			\$35
Total Labor Charges (Preparation Phase):					\$332
LABOR CHARGES (Construction Phase): 172 Weeks					
4) a. Labor					
		Amount		Staff Ave	\$ Amount
	Chief (14)	86	Hours	\$63	\$5,418
	Branch Chief (13)	86	Hours	\$44	\$3,784
	CA Engineer (12)	344	Hours	\$42	\$14,448
	Budget Tech. (7/8)	688	Hours	\$19	\$13,072
	Support Svcs Spec (7)	86	Hours	\$21	\$1,806
	Secretary (5)	688	Hours	\$15	\$10,320
	Environmental Spec (12)	172	Hours	\$37	\$6,364
	Environmental Engr (12)	86	Hours	\$33	\$2,838
Subtotal In-House Direct Labor					\$58,050
5) Tech Indirect (Est. Rate):		68.00%			\$39,474
6) G&A Rate (Est. Rate):		20.00%			\$11,610
Total Labor Charges (Construction Phase):					\$109,134
LABOR CHARGES (Closeout Phase): 3 Weeks					
7) a. Labor					
		Amount		Staff Ave	\$ Amount
	Chief (14)	0.5	Hours	\$63	\$32
	Branch Chief (13)	1	Hours	\$44	\$44
	CA Engineer (12)	1	Hours	\$42	\$42
	Budget Tech. (7/8)	4	Hours	\$19	\$76
	Support Svcs Spec (7)	1	Hours	\$21	\$21
	Secretary (5)	4	Hours	\$15	\$60
	Other		Hours	\$0	0
Subtotal In-House Direct Labor					\$275
8) Tech Indirect (Est. Rate):		68.00%			\$187
9) G&A Rate (Est. Rate):		20.00%			\$55
Total Labor Charges (Closeout Phase):					\$516
TOTAL DIRECT LABOR					\$109,982

BUDGET WORKSHEET		11/30/94	
PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK: Blue River Construction Management		ORG CODE	
OFFICE: Construction Division (District Ofc)		FB/FC	
TRAVEL:			
10) Travel & Transportation (Dist Ofc)			\$ Amount
Per Diem (1 RT @ 2dys/month)	94	# Days	\$75
Govt Vehicle	9400	# Miles	\$50
Airlines		# Trips	\$0
Auto Rental		# Times	\$0
Total Direct Travel Expenses:			\$11,750
MISCELLANEOUS EXPENSES:			
11) Supplies & Materials			\$0
12) Reproduction			\$0
13) Other			\$0
Total Direct Miscellaneous Expenses:			\$0
SHOP INSPECTION: (32 weeks)			
14) a. Labor	Amount	Staff Ave	\$ Amount
Branch Chief (13)	16	Hours	\$44
Quality Assur Spec (11)	128	Hours	\$28
Subtotal In-House Direct Labor			\$4,288
15) Tech Indirect (Est. Rate):	68.00%		\$2,916
16) G&A Rate (Est. Rate):	20.00%		\$858
Total Direct Labor			\$8,061
17) Travel & Transportation			\$ Amount
Per Diem		# Days	\$75
Govt Vehicle	1600	# Miles	\$30
Airlines		# Trips	\$0
Auto Rental		# Times	\$0
Total Direct Travel			\$480
Total Direct Expenses for Shop Inspection			\$9,021
Contracting Division			
18) Contracting Officer	172	Hours	\$40
19) Procurement Clerk	595	Hours	\$15
Total Contracting Division			\$15,805
TOTAL ESTIMATED COST FOR ACCOUNT 31.C.2			\$15,805
TOTAL ESTIMATED COST FOR ACCOUNT 31.C.1			\$130,754
TOTAL			\$146,559
Contingency, Account 31. .Z			\$14,656
TOTAL FOR ACCOUNT			\$161,215

BUDGET WORKSHEET		11/30/94	
PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK: Blue River Construction Management		ORG CODE	
OFFICE: Construction Division (Field Office)		FD	
LABOR CHARGES (Preparation Phase): (2 weeks)			
1) a. Labor	Amount	Staff Ave	\$ Amount
Resident Engr (14)	5 Hours	\$54	\$270
Proj Manager (13)	16 Hours	\$42	\$672
CA Engr Tech (11)	Hours	\$30	\$0
Elect Engr Tech (11)	Hours	\$27	\$0
QA Inspector (9/11/12)	Hours	\$35	\$0
Procurement Clrk (5)	4 Hours	\$15	\$60
Secretary (6)	1 Hours	\$18	\$18
Loaned Secretary (4/5)	2 Hours	\$13	\$26
Subtotal In-House Direct Labor			\$1,046
2) Tech Indirect (Est. Rate):	68.00%		\$711
3) G&A Rate (Est. Rate):	20.00%		\$209
Total Labor Charges (Preparation Phase):			\$1,966
LABOR CHARGES (Construction Phase): 172 Weeks			
4) a. Labor	Amount	Staff Ave	\$ Amount
Resident Engr (14)	86 Hours	\$54	\$4,644
Proj Manager (13)	6880 Hours	\$42	\$288,960
CA Engr Tech (11)	86 Hours	\$30	\$2,580
Elect Engr Tech (11)	Hours	\$27	\$0
CA Engr (11/12)	Hours	\$38	\$0
Procurement Clrk (5)	516 Hours	\$15	\$7,740
Secretary (6)	86 Hours	\$18	\$1,548
Loaned Secretary (4/5)	3440 Hours	\$13	\$44,720
Subtotal In-House Direct Labor			\$350,192
5) Tech Indirect (Est. Rate):	68.00%		\$238,131
6) G&A Rate (Est. Rate):	20.00%		\$70,038
Total Labor Charges (Construction Phase):			\$658,361
LABOR CHARGES (Closeout Phase): (3 weeks)			
7) a. Labor	Amount	Staff Ave	\$ Amount
Resident Engr (14)	1 Hours	\$54	\$54
Proj Manager (13)	16 Hours	\$42	\$672
CA Engr Tech (11)	4 Hours	\$30	\$120
Elect Engr Tech (11)	Hours	\$27	\$0
QA Inspector (9/11/12)	Hours	\$35	\$0
Procurement Clrk (5)	4 Hours	\$15	\$60
Secretary (6)	1 Hours	\$18	\$18
Loaned Secretary (4/5)	4 Hours	\$13	\$52
Subtotal In-House Direct Labor			\$906
8) Tech Indirect (Est. Rate):	68.00%		\$616
9) G&A Rate (Est. Rate):	20.00%		\$181
Total Labor Charges (Closeout Phase):			\$1,703
TOTAL DIRECT LABOR			\$662,031

BUDGET WORKSHEET		11/30/94	
PROJECT: WILLAMETTE RIVER TEMPERATURE CONTROL FEASIBILITY STUDY			
TASK: Blue River Construction Management		ORG CODE	
OFFICE: Construction Division (Field Office)		FD	
TRAVEL:			
10) Travel & Transportation			\$ Amount
Per Diem (2 dys/wk for 20 wks)	160	# Days	\$65
Govt Vehicle (1 RT per wk)	8600	# Miles	\$.30
Airlines		# Trips	\$0
Auto Rental		# Times	\$0
Total Direct Travel Expenses:			\$12,980
MISCELLANEOUS EXPENSES:			
11) Supplies & Materials (\$20/month)			\$940
12) Reproduction (\$10/month)			\$470
13) Other			\$0
Total Direct Miscellaneous Expenses:			\$1,410
CONSTRUCTION INSPECTION: (172 weeks)			
14) a. Labor		Amount	Staff Ave \$ Amount
Constr Inspector (9/11/12)	4128	Hours	\$35
Other		Hours	\$0
Subtotal In-House Direct Labor			\$144,480
15) Tech Indirect (Est. Rate:)		68.00%	\$98,246
16) G&A Rate (Est. Rate):		20.00%	\$28,896
Total Direct Labor			\$271,622
17) Travel & Transportation			
Per Diem	160	# Days	\$65
Govt Vehicle	34400	# Miles	\$.30
Airlines		# Trips	\$0
Auto Rental		# Times	\$0
Total Direct Travel			\$20,720
Total Direct Expenses for Construction Inspection			\$313,062
TOTAL ESTIMATED COST FOR ACCOUNT 31.A.1			\$989,483
Contingency, Account 31. .Z			\$98,948
TOTAL FOR ACCOUNT			\$1,088,431

APPENDIX B

PRODUCT SCHEDULES

BLUE RIVER CONSTRUCTION SCHEDULE

